BIOCHEMICAL JOURNAL

BIJOAK

AUTHOR AND KEYWORD INDEXES

for volumes

345–352 (2000)

The Biochemical Society, London © 2001

Essential Life Sciences Online

Biochemical Journal

Chairman of Editorial Board: ***Peter Parker*** *(ICRF, London, UK)*

http://www.BiochemJ.org

The Biochemical Journal is available online offering many additional advantages:

• **New** – Every year in January the online content for the previous years will become free • Published online one week early • Electronic multi-media adjuncts • Medline and Inter-journal linking

Subscription – 2001: Volumes 353–360 (24 issues)
North America: US$2085.00 Rest of World: £1185.00

Biotechnology and Applied Biochemistry

Editor-in-Chief: ***Roger Lundblad*** *(Chapel Hill, USA)*

http://bab.portlandpress.com

In addition to the features of the Biochemical Journal Online, the full text of papers for *Biotechnology & Applied Biochemistry* are now published online as soon as they are ready, several weeks before the printed edition.

It includes scholarly articles and reviews concerning the expression, purification, characterization and application of biological macromolecules in therapeutics and diagnostics.

Subscription – 2001: Volumes 33–34 (6 issues)
North America: US$266.00 Rest of World: £153.00

Clinical Science

Editor-in-Chief: ***Kim Bartlett*** *(Newcastle-upon-Tyne, UK); Associate Editor Americas:* ***Aubrey Taylor*** *(Mobile, USA)*

http://cs.portlandpress.com

Full access to online papers from 1998, abstracts from 1997 plus full text of papers published online as soon as they are ready.

Publishes articles and reviews on all aspects of clinical investigation, including biochemical, physiological, immunological, cellular, molecular biological and other approaches of relevance to disease in man.

Subscription – 2001: Volumes 100–101 (12 issues)
North America: US$560.00 Rest of World: £310.00

Biochemical Society Transactions

http://bst.portlandpress.com

Missed the Biochemical Society Meeting? - Don't Miss the Science

The Biochemical Society's conferences bring together some of the best biochemical and life-science research by international speakers. *Biochemical Society Transactions* contains the scientific reports and poster abstracts from these meetings. The prestigious medal lectures are also published.

Subscription - 2001: Volume 29 (6 parts)
North America: US$325.00 Rest of World: £190.00

Free to subscribers

Full free online access to the current year of these journals is restricted to institutions that have a subscription. Ask your subscribing library to contact us to ensure you have access to papers in these online journals as soon as they are available.

Contact: **support@portlandpress.com**

Portland Press

Back

Next

.pdf

Home

Join the email current awareness service for these important journals

Enquiries to:

Portland Customer Services, Commerce Way, Colchester CO2 8HP
Tel: +44 01206 796351
Fax: +44 01206 799331
sales@portlandpress.com
www.portlandpress.com

Portland Press is the not-for-profit subsidiary of the Biochemical Society publishing journals and books in the life sciences.

Please quote ZPPA when ordering

Biochemical Journal

AUTHOR AND KEYWORD INDEXES

for volumes

345–352 (2000)

The Biochemical Society, London © 2001

Available from

Portland Customer Services, P.O. Box 32,
Commerce Way, Colchester CO2 8HP, U.K.
Fax (U.K.) 01206 799331
(from overseas) +44 1206 799331
e-mail sales@portlandpress.com

All rights reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may be reproduced, stored or transmitted, in any forms or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency. Inquiries concerning reproduction outside those terms should be sent to the publishers at the above-mentioned address.

Compiled and composed by Cadmus Journal Services, Linthicum, MD, U.S.A.

Printed in Great Britain by the University Press, Cambridge

Author Index

VOLUMES 345-352 (2000)

Abas, L.
——: Bogoyevitch, M. A.; Guppy, M.
Mitochondrial ATP production is necessary for activation of the extracellular-signal-regulated kinases during ischaemia/reperfusion in rat myocyte-derived H9c2 cells, 349:113
Abbadi, A.
——: Brummel, M.; Schütt, B. S.; Slabaugh, M. B.; Schuch, R.; Spener, F.
Reaction mechanism of recombinant 3-oxoacyl-(acyl-carrier-protein) synthase III from *Cuphea wrightii* embryo, a fatty acid synthase type II condensing enzyme, 345:153
Abbenante, G., *See* Shrimpton, C. N.
Abduragimov, A. R., *See* Yusifov, T. N.
Abella, A., *See* Enrique-Tarancón, G.
Abendschein, D. R., *See* Han, X.
Abou Hachem, M.
——: Karlsson, E. N.; Bartonek-Roxå, E.; Raghothama, S.; Simpson, P. J.; Gilbert, H. J.; Williamson, M. P.; Holst, O.
Carbohydrate-binding modules from a thermostable *Rhodothermus marinus* xylanase: cloning, expression and binding studies, 345:53
Ackland, M. L., *See* Michalczyk, A. A.
Acosta, M., *See* Hiner, A. N. P.
Adachi, K.
——: Katsuyama, M.; Song, S.; Oka, T.
Genomic organization, chromosomal mapping and promoter analysis of the mouse selenocysteine tRNA gene transcription-activating factor *(mStaf)* gene, 349:45
Adkins, C. E.
——: Wissing, F.; Potter, B. V. L.; Taylor, C. W.
Rapid activation and partial inactivation of inositol trisphosphate receptors by adenophostin A, 352: 929
Adler, I.-D., *See* Hagenbuch, B.
Affleck, J., *See* Helliwell, P. A.
Agarwal, C., *See* Balasubramanian, S.
Agius, L., *See* Cascante, M.
——: Stubbs, M.
Investigation of the mechanism by which glucose analogues cause translocation of glucokinase in hepatocytes: evidence for two glucose binding sites, 346:413
Agudo, M., *See* del Arco, A.
Aguilar, R., *See* Dinkova, T. D.
Ahamed, J., *See* Mahapatra, S.
Ahmad, F., *See* Sinha, A.
Ahmad, M., *See* Trabzuni, C.
Ahmad, R., *See* Sinha, A.
Ahmad, S., *See* Martin, P. E. M.
Ahmed, N.
——: Ramjeesingh, M.; Wong, S.; Varga, A.; Garami, E.; Bear, C. E.
Chloride channel activity of CIC-2 is modified by the actin cytoskeleton, 352:789
Ahn, J. O., *See* Bandyopadhyay, A.
Ahvazi, B.
——: Coulombe, R.; Delarge, M.; Vedadi, M.; Zhang, L.; Meighen, E.; Vrielink, A.
Crystal structure of the $NADP^+$-dependent aldehyde dehydrogenase from *Vibrio harveyi:* structural implications for cofactor specificity and affinity, 349:853
Aitken, A., *See* Rahman, S.
Akahori, M., *See* Ariga, M.
Akbar, M., *See* Li, B.
Akhtar, M., *See* Mccarthy, N. E. M.
Akins, C. E.
——: Morris, S. A.; De Smedt, H.; Sienaert, I.; Török, K.; Taylor, C. W.
Ca^{2+}-calmodulin inhibits Ca^{2+} release mediated by type-1, -2 and -3 inositol trisphosphate receptors, 345: 357
Akkawi, M., *See* Blauer, G.
Akkerman, J.-W. N., *See* Hackeng, C. M.
Ala-Kokko, L., *See* Yuan, C. M.
Albeck, A.
——: Kliper, S.
Inactivation of cysteine proteases by peptidyl epoxides: characterization of the alkylation sites on the enzyme and the inactivator, 346:71
Alberghina, L., *See* Russo, G. L.
Albert, M., *See* Nidetzky, B.
Alcazar, O.
——: Tiedge, M.; Lenzen, S.
Importance of lactate dehydrogenase for the regulation of glycolytic flux and insulin secretion in insulin-producing cells, 352:373
Aldecoa, A., *See* Leuthäuser, K.
Aledo, J. C., *See* Gómez-Fabre, P. M.; Lobo, C.
Alessi, D. R., *See* Deprez, J.; Dowler, S.; Vanhaesebroeck, B.
Ali-Osman, F., *See* Mullapudi, S. R. S.
Allan, D.
——: Lipid metabolic changes caused by short-chain ceramides and the connection with apoptosis, 345:603
Allegra, C., *See* Zajac-Kaye, M.
Allen, K. J., *See* Michalczyk, A. A.
Allen, V., *See* Takeuchi, H.
Allocati, N.
——: Casalone, E.; Masulli, M.; Polekhina, G.; Rossjohn, J.; Parker, M. W.; Di Ilio, C.
Evaluation of the role of two conserved active-site residues in Beta class glutathione S-transferases, 351:341
Allsop, D., *See* Gardner, R. C.
Almeida, I. C., *See* Lischke, A.
Alonso, C., *See* Soto, M.
Alonso, F. J., *See* Gómez-Fabre, P. M.; Lobo, C.
Alonso, J. M., *See* Curie, C.
Altieri, E., *See* Pariat, M.
Altschuler, G., *See* Dekker, L. V.
Altshuller, Y. M., *See* Slaaby, R.
Alvarez, B., *See* Schöpfer, F.
Alvarez, G. R., *See* Lafuse, W. P.
Alvarez, R.
——: Checa, M^{a}L.; Brun, S.; Viñas, O.; Mampel, T.; Iglesias, R.; Giralt, M.; Villarroya, F.
Both retinoic-acid-receptor- and retinoid-X-receptor-dependent signalling pathways mediate the induction of the brown-adipose-tissue-uncoupling-protein-1 gene by retinoids, 345:91
Alves, M. J., *See* Bertello, L. E.
Amachi, T., *See* Zhao, L.-X.
Amandoron, E. A., *See* Boraston, A. B.
Amano, T., *See* Konno, H.
Amaya, Y., *See* Fukushi-Irié, M.
Ameixa, C.
——: Brickell, P. M.
Characterization of a chicken retinoid X receptor-γ gene promoter and identification of sequences that direct expression in retinal cells, 347:485
Amizuka, N., *See* Fukushi-Irié, M.
Anai, M., *See* Inukai, K.
Anand-Srivastava, M. B., *See* Palaparti, A.
Ananthanarayanan, V. S., *See* Thomson, C. A.
Andberg, M.
——: Wetterholm, A.; Medina, J. F.; Haeggström, J. Z.
Leukotriene A_4 hydrolase: a critical role of glutamic acid-296 for the binding of bestatin, 345:621
Anderluh, G., *See* Malovrh, P.
Andersch, Y., *See* Karlsson, N. G.
Anderson, A. A., *See* Zorzato, F.
Andersson, U.
——: Antonicka, H.; Houstek, J.; Cannon, B.
A novel principle for conferring selectivity to poly(A)-binding proteins: interdependence of two ATP synthase β-subunit mRNA-binding proteins, 346:33
Ando, T., *See* Motojima, M.
Andreae, F., *See* Bergt, C.
Andreesen, R., *See* Krause, S. W.
Andrei, G., *See* Verri, A.
Andres, D. A., *See* Finlin, B. A.
Angulo, Y., *See* Lizano, S.
Anker, D., *See* Kester, H. C. M.
Annan, R. S., *See* Kassis, S.
Antholine, W. E., *See* Chitambar, C. R.
Anton, V., *See* Nahoum, V.
Antonicka, H., *See* Andersson, U.
Antonsson, B.
——: Montessuit, S.; Lauper, S.; Eskes, R.; Martinou, J.-C.
Bax oligomerization is required for channel-forming activity in liposomes and to trigger cytochrome *c* release from mitochondria, 345: 271
Antonyraj, K. J., *See* Raj, P. A.
Aoki, F., *See* Kuraishi, T.
Aoki, H.
——: Richmond, M.; Izumo, S.; Sadoshima, J.
Specific role of the extracellulsr signal-regulated kinase pathway in angiotensin II-induced cardiac hypertrophy *in vitro*, 347:275
Aoki, J., *See* Fujita, H.
Aoki, Y., *See* Matsumoto, M.
Aon, M. A., *See* Gómez Casati, D. F.
Appaji Rao, N., *See* Talwar, R.
Apps, D. K., *See* Duncan, R. R.
Arai, M., *See* Sumitani, J.-i.
Ariga, M.
——: Nedachi, T.; Akahori, M.; Sakamoto, H.; Ito, Y.; Hakuno, F.; Takahashi, S.-I.
Signalling pathways of insulin-like growth factor-I that are augmented by cAMP in FRTL-5 cells, 348:409
Arimatsu, Y., *See* Uratani, Y.
Ariño, J., *See* Morillas, M.
Arinze, I. J., *See* Davis, M. G.
Arion, D., *See* Sluis-Cremer, N.
Armstrong, C. G., *See* Fleming, Y.

© 2001 Biochemical Society

Armstrong, F. A., *See* Busch, J. L. H.
Armstrong, P. B., *See* Swarnakar, S.
Armstrong, R. N., *See* Stevens, J. M.
Arnao, M. B., *See* Hiner, A. N. P.
Arnér, E. S. J., *See* Rundlöf, A.-K.
Arrio-Dupont, M., *See* Foucault, G.
Arthur, J. S. C., *See* Dutt, P.
Asano, T., *See* Inukai, K.
Asazuma, N., *See* Ohmori, T.
Asins, G., *See* Eggers, A.; Morillas, M.
Askari, J. A., *See* Tuckwell, D. S.
Aslesen, R., *See* Whitehead, J. P.
Asokan, R., *See* Swarnakar, S.
Assinder, S. J., *See* Gardner, R. C.
Astier, C., *See* Steiger, S.
Aubert, J.-P., *See* Van Seuningen, I.
Auerbach, G., *See* Thöny, B.
Auerbach, S. D.
——; Loftus, R. W.; Itani, O. A.; Thomas, C. P.
Human amiloride-sensitive epithelial Na^+ channel γ subunit promoter: functional anaylsis and identification of a polypurine-polypyrimidine tract with the potential for triplex DNA formation, 347:105
Augé, C., *See* Harduin-Lepers, A.
Augustin, A.
——; Muller-Steffner, H.; Schuber, F.
Molecular cloning and functional expression of bovine spleen ecto-NAD^+ glycohydrolase: structural identity with human CD38, 345:43
Austen, B. M., *See* Sian, A. K.
Aviezer, D., *See* Safran, M.
Avigliano, L., *See* Savini, I.
Azzout-Marniche, D.
——; Bécard, D.; Guichard, C.; Foretz, M.; Ferré, P.; Foufelle, F.
Insulin effects on sterol regulatory-element-binding protein-1c (SREBP-1c) transcriptional activity in rat hepatocytes, 350:389

Bachelot-Loza, C., *See* Saci, A.
Bader, M.-F., *See* Le Stunff, H.
Bagshaw, R., *See* Zhang, S.
Bahbouhi, B.
——; Bendjennat, M.; Guétard, D.; Seidah, N. G.; Bahraoui, E.
Effect of alpha-1 antitrypsin Portland variant (α1-PDX) on HIV-1 replication, 352:91
Bahr, U., *See* Melcher, R.; Straif, D.
Bahraoui, E., *See* Bahbouhi, B.
Baik, J.-m., *See* Wagner, K.
Bailey, B. N., *See* Rodrigues, C. O.
Bailey, R. A., *See* Burns, S. P.
Baker, E. N., *See* Toogood, H. S.
Baker, J. R.
——; Pritchard, D. G.
Action pattern and substrate specificity of the hyaluronan lyase from group B streptococci, 348:465
Baker, M. E., *See* Sciotti, M. A.
Balasubramanian, S.
——; Agarwal, C.; Efimova, T.; Dubyak, G. R.; Banks, E.; Welter, J.; Eckert, R. L.
Thapsigargin suppresses phorbol ester-dependent human involucrin promoter activity by suppressing CCAAT-enhancer-binding protein α (C/EBPα) DNA binding, 350:791
Baldwin, S. A., *See* Parker, M. D.
Ball, K. L., *See* Hupp, T. R.
Ballabio, A., *See* Monti, E.
Ballmer-Hofer, K., *See* Fresno Vara, J. A.
Balogh, A., *See* Hospital, V.
Baltauss, T., *See* Traver, S.
Balzarini, J., *See* Verri, A.
——; Zhu, C.; De Clercq, E.; Pérez-Pérez, M.-J.; Chamorro, C.; Camarasa, M.-J.; Karlsson, A.
Novel ribofuranosylnucleoside lead compounds for potent and selective inhibitors of mitochondrial thymidine kinase-2, 351:167
Banci, L., *See* Santucci, R.
Bandyopadhyay, A.
——; Shin, D. W.; Ahn, J. O.; Kim, D. H.
Calcineurin regulates ryanodine receptor/Ca^{2+}-release channels in rat heart, 352:61
——; Shin, D.-W.; Kim, D. H.
Regulation of ATP-induced calcium release in COS-7 cells by calcineurin, 348:173
Banerjea, A. C., *See* Sriram, B.
Bangs, J. D., *See* Sharma, D. K.
Bánhegi, G., *See* Csala, M.
Bank, R. A., *See* Verzijl, N.
Banks, E., *See* Balasubramanian, S.
Bannow, C. A., *See* Powers, E. A.
Banting, G., *See* Millard, T. H.; Stephens, D. J.
Baranyi, L., *See* Tolnay, M.
Barath, P., *See* Hodny, Z.; Luciakova, K.
Barbier-Brygoo, H., *See* Lurin, C.
Barco, R., *See* Price-Schiavi, S. A.
Barik, S., *See* Bracchi-Ricard, V.
Barker, H. M., *See* Helps, N. R.
Barlic, A., *See* Malovrh, P.
Barnard, D. S., *See* Yip-Schneider, M. T.
Barnes, J., *See* Hutter, D.
Barnes, L. D., *See* Ingram, S. W.
Barnes, M. J., *See* Tuckwell, D. S.
Barnoy, S.
——; Supino-Rosin, L.; Kosower, N. S.
Regulation of calpain and calpastatin in differentiating myoblasts: mRNA levels, protein synthesis and stability, 351:413
Baroni, M. D., *See* Russo, G. L.
Barouki, R., *See* Massaad, C.; Morel, Y.
Barr, A. J., *See* Dyck, J. R. B.
Barr, R., *See* Dyck, J. R. B.
Barrett, A. J., *See* Chen, J.-M.
Barry, M., *See* Nash, P.
Bartonek-Roxå, E., *See* Abou Hachem, M.
Bashir, S., *See* Famulski, K. S.
Basnak, I., *See* Verri, A.
Bassel-Duby, R., *See* Yang, Q.
Bassi, M. T., *See* Monti, E.
Bast, R. C., Jr., *See* Fang, X.; Mao, M.
Bastie, C., *See* Jehl-Pietri, C.
Basu, J., *See* Mahapatra, S.
Bates, P. A., *See* Stanley, P.
Batra, J. K., *See* Goyal, A.
Baumann, M. H.
——; Kallijärvi, J.; Lankinen, H.; Soto, C.; Haltia, M.
Apolipoprotein E includes a binding site which is recognized by several amyloidogenic polypeptides, 349:77
Baumeister, S., *See* Wuhrer, M.
Bauvy, C., *See* Ogier-Denis, E.
Baxter, R. L., *See* Leadbeater, C.
Bayliss, M. T., *See* Verzijl, N.
Baynes, J. W., *See* Verzijl, N.
Bear, C. E., *See* Ahmed, N.
Beattie, J. H., *See* Waelput, W.
Beauchamp, J., *See* Kennedy, M. W.
Bébien, M., *See* Pariat, M.
Bécard, D., *See* Azzout-Marniche, D.
Becherer, J. D., *See* Schlöndorff, J.
Becker, D.
——; Johnson, K. S. H.; Koivula, A.; Schülein, M.; Sinnott, M. L.
Hydrolyses of α- and β-cellobiosyl fluorides by Cel6A (cellobiohydrolase II) of *Trichoderma reesei* and *Humicola insolens*, 345:315
Beckerle, M. C., *See* Harper, B. D.
Beckmann, R., *See* Young, M. R.
Beers, M. F., *See* Danlois, F.
Beeton, C. A.
——; Chance, E. M.; Foukas, L. C.; Shepherd, P. R.
Comparison of the kinetic properties of the lipid- and protein-kinase activities of the p110α and p110β catalytic subunits of class-Ia phosphoinositide 3-kinases, 350:353
Begent, R. H. J., *See* Boehm, M. K.
Begum, N. A., *See* Nomura, M.
Begum, R. R., *See* Hanlon, M. R.
Behrens, M. M., *See* Moreno-Bueno, G.
Behrmann, I., *See* Haan, C.; Haan, S.
Belghazi, M., *See* Bertola, F.
Béliveau, R., *See* Gingras, D.
Belkner, J.
——; Stender, H.; Holzhütter, H.-G.; Holm, C.; Kühn, H.
Macrophage cholesteryl ester hydrolases and hormone-sensitive lipase prefer specifically oxidized cholesteryl esters as substrates over their non-oxidized counterparts, 352:125
Bellafiore, M., *See* Di Liegro, C. M.
Beltrán, B., *See* Orsi, A.
Ben-Baruch, N., *See* Zajac-Kaye, M.
Benchimol, M., *See* Rodrigues, C. O.
Bendjennat, M., *See* Bahbouhi, B.
Benedetti, A., *See* Csala, M.
Benen, J. A. E., *See* Kester, H. C. M.; Pařenicová, L.
Bengtsson, T.
——; Cannon, B.; Nedergaard, J.
Differential adrenergic regulation of the gene expression of the β-adrenoceptor subtypes β_1, β_2 and β_3 in brown adipocytes, 347:643
Benjannet, S., *See* Lissitzky, J.-C.
Bentley, J. D., *See* Elleman, T. C.
Berdyshev, E. V.
——; Schmid, P. C.; Dong, Z.; Schmid, H. H. O.
Stress-induced generation of *N*-acylethanolamines in mouse epidermal JB6 P^+ cells, 346:369
Berg, T. O., *See* Fengsrud, M.
Bergman, M., *See* Paukku, K.
Bergmann, C., *See* Kester, H. C. M.
Bergquist, P. L., *See* Sunna, A.
Bergt, C.
——; Oettl, K.; Keller, W.; Andreae, F.; Leis, H. J.; Malle, E.; Sattler, W.
Reagent or myeloperoxidase-generated hypochlorite affects discrete regions in lipid-free and lipid-associated human apolipoprotein A-I, 346:345
Berk, P. D., *See* Bradbury, M. W.
Berks, B. C., *See* Butler, C. S.
Bernardi, L., *See* Vitale, G.
Bernier-Villamor, V., *See* Camacho, A.
Berridge, M. j., *See* Collins, T. J.
Bertello, L. E.
——; Alves, M. J.; Colli, W.; de Lederkremer, R. M.
Evidence for phospholipases from *Trypanosoma cruzi* active on phosphatidylinositol and inositolphosphoceramide, 345:77
Berthiaume, L. G., *See* Dyck, J. R. B.; Zhang, Q.-X.
Bertola, F.
——; Manigand, C.; Picard, P.; Belghazi, M.; Precigoux, G.
Human T-lymphotrophic virus type I nucleocapsid protein NCp15: structural study and stability of the N-terminal zinc-finger, 352:293
Bertoldi, M.
——; Borri Voltattorni, C.
Reaction of dopa decarboxylase with L-aromatic amino acids under aerobic and anaerobic conditions, 352:533
Bertoli, A., *See* Meggio, F.

© 2001 Biochemical Society

Bertrand, L., *See* Deprez, J.
Bettaïeb, A., *See* Plo, I.
Beullens, M.
——; Vulsteke, V.; Van Eynde, A.; Jagiello, I.; Stalmans, W.; Bollen, M.
The C-terminus of NIPP1 (nuclear inhibitor of protein phosphatase-1) contains a novel binding site for protein phosphatase-1 that is controlled by tyrosine phosphorylation and RNA binding, 352:651
Bevers, E. M., *See* Dekkers, D. W. C.
Bezuglov, V. V., *See* Bisogno, T.
Bhakta, S., *See* Mahapatra, S.
Bhat, M. B., *See* Hayek, S. M.
Bhat, M. K., *See* Ntarima, P.
Bianchi, R., *See* Galbete, J. L.
Bidot, C., *See* Traver, S.
Bigelow, D. J., *See* Negash, S.
Bijlsma, J. W. J., *See* Verzijl, N.
Bilski, P., *See* McCormick, M. L.
Bing, W.
——; Knott, A.; Marston, S. B.
A simple method for measuring the relative force exerted by myosin on actin filaments in the *in vitro* motility assay: evidence that tropomyosin and troponin increase force in single thin filaments, 350: 693
Biol, M.-C., *See* Greco, S.
Birch, N. P., *See* Hill, R. M.
Birdsey, G. M., *See* Knott, T. G.
Birinyi-Strachan, L. C., *See* Torres, A. M.
Bischoff, H., *See* Nahoum, V.
Bishop, A. L.
——; Hall, A.
Rho GTPases and their effector proteins, 348:241
Bisinella, A., *See* Brunati, A. M.
Bisogno, T.
——; Melck, D.; Bobrov, M. Y.; Gretskaya, N. M.; Bezuglov, V. V.; De Petrocellis, L.; di Marzo, V.
N-acyl-dopamines: novel synthetic CB_1 cannabinoid-receptor ligands and inhibitors of anandamide inactivation with cannabimimetic activity *in vitro* and *in vivo*, 351:817
Biswas, I.
——; Vijayvargia, R.
Heteroduplex DNA and ATP induced conformational changes of a MutS mismatch repair protein from *thermus aquaticus*, 347:881
Björklund, S., *See* Törnquist, K.
Bjursell, G., *See* Kannius-Janson, M.
Black, S. A., Jr., *See* Thames, E. L.
Blackburn, M. G., *See* Ellis, S. W.
Blair, A. S., *See* Peyrollier, K.
Blanc, S., *See* Héricourt, F.
Blanchard, D., *See* Gonçalves, O.
Blatch, G. L., *See* van der Spuy, J.
Blau, N., *See* Thöny, B.
Blauer, G.
——; Akkawi, M.
On the preparation of β-haematin, 346:249
Blázquez, M.
——; Thiele, C.; Huttner, W. B.; Docherty, K.; Shennan, K. I. J.
Involvement of the membrane lipid bilayer in sorting prohormone convertase 2 into the regulated secretory pathway, 843
Blenkinsop, C., *See* Svistunenko, D. A.
Blobel, C. P., *See* Howard, L.; Schlöndorff, J.
Block, C., *See* Kurz, A. K.
Blommaart, E. F. C., *See* van Sluijters, D. A.
Blomquist, A.
——; Schwörer, G.; Schablowski, H.; Psoma, A.; Lehnen, M.; Jakobs, K. H.; Rümenapp, U.
Identification and characterization of a novel Rho-specific guanine nucleotide exchange factor, 352:319
Board, P. G., *See* Njålsson, R.
Bobik, E. G., *See* Leonard, A. E.
Bobrov, M. Y., *See* Bisogno, T.
Bocco, J. L., *See* Panzetta-Dutari, G. M.
Bocianski, A., *See* Doege, H.
Bodin, S., *See* Giuriato, S.
Boehm, M. K.
——; Corper, A. L.; Wan, T.; Sohi, M. K.; Sutton, B. J.; Thornton, J. D.; Keep, P. A.; Chester, K. A.; Begent, R. H. J.; Perkins, S. J.
Crystal structure of the anti-(carcinoembryonic antigen) single-chain Fv antibody MFE-23 and a model for antigenbinding based on intermolecular contacts, 346:519
Boehmer, F. D., *See* Graness, A.
Böer, U.
——; Neuschäfer-Rube, F.; Möller, U.; Püschel, G. P.
Requirement of N-glycosylation of the prostaglandin E_2 receptor EP3β for correct sorting to the plasma membrane but not for correct folding, 350:839
Bogoyevitch, M. A., *See* Abas, L.
Boileau, G., *See* Ghaddar, G.
Boilly, B., *See* Guerardel, Y.
Boittin, F.-X.
——; Coussin, F.; Morel, J. L.; Halet, G.; Macrez, N.; Mironneau, J.
Ca^{2+} signals mediated by Ins(1,4,5)P_3-gated channels in rat ureteric myocytes, 349:323
Bolla, J. M.
——; Dé, E.; Dorez, A.; Pagès, J. M.
Purification, characterization and sequence analysis of Omp50, a new porin isolated from *Campylobacter jejuni*, 352:637
Bollen, M., *See* Beullens, M.
Bologna, L., *See* Favaloro, B.
Bols, M., *See* Lohse, A.
Bonavita, F., *See* Stefanelli, C.
Bongiovanni, C., *See* Santucci, R.
Bonini, B. M.
——; van Vaeck, C.; Larsson, C.; Gustafsson, L.; Ma, P.; Winderickx, J.; van Dijck, P.; Thevelein, J. M.
Expression of *Escherichia coli otsA* in a *Saccharomyces cerevisiae tps1* mutant restores trehalose 6-phosphate levels and partly restores growth and fermentation with glucose and control of glucose influx into glycolysis, 350:261
Bootman, M. D., *See* Collins, T. J.
Boraston, A. B.
——; Tomme, P.; Amandoron, E. A.; Kilburn, D. G.
A novel mechanism of xylan binding by a lectin-like module from *Streptomyces lividans* xylanase 10A, 350:933
Borel, O., *See* Gineyts, E.
Borghaei, R. C., *See* Thornton, R. D.
Born, W., *See* Leuthäuser, K.
Boronat, A., *See* Charon, L.
Borrello, S., *See* Pani, G.
Borri Voltattorni, C., *See* Bertoldi, M.
Borsani, G., *See* Monti, E.
Bos, J. L., *See* Hackeng, C. M.
Bosch, R. J., *See* Torrecillas, G.
Bosco, D.
——; Meda, P.; Iynedjian, P. B.
Glucokinase and glucokinase regulatory protein: mutual dependence for nuclear localization, 348:215
Bose, S., *See* Brooks, P.
Bossemeyer, D., *See* Thullner, S.
Bottomley, J. R., *See* Cozier, G.
Bouillaud, F., *See* Ricquier, D.
Bouma, B., *See* Komatsu, H.
Bourgoin, S., *See* Le Stunff, H.
Boutabout, M., *See* Wilhelm, M.
Boveris, A., *See* Schöpfer, F.
Bowman, L. H., *See* Thames, E. L.
Bracchi-Ricard, V.
——; Barik, S.; DelVecchio, C.; Doerig, C.; Chakrabarti, R.; Chakrabarti, D.
PfPK6, a novel cyclin-dependent kinase/mitogen-activated protein kinase-related protein kinase from *Plasmodium falciparum*, 347:255
Brachet, P., *See* Chabanon, H.
Bradbury, M. W.
——; Berk, P. D.
Mitochondrial aspartate aminotransferase: direction of a single protein with two distinct functions to two subcellular sites does not require alternative splicing of the mRNA, 345:423
Brady, K.
——; Fitzgerald, S.; Moynagh, P. N.
Tumour-necrosis-factor-receptor-associated factor 6, NF-κB-inducing kinase and IκB kinases mediate IgE isotype switching in response to CD40, 350:735
Brand, H., *See* McNair, A.
Brand, M. D., *See* Cadenas, S.
Brandt, W. F., *See* Woodman, Z. L.
Brashaw, J., *See* Stanley, P.
Braun, N.
——; Fengler, S.; Ebeling, C.; Servos, J.; Zimmermann, H.
Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family, 351:639
Brautigan, D. L., *See* Liu, J.
Brauze, D.
——; Malejka-Giganti, D.
A novel 4 S [^{3}H]225-naphthoflavone-binding protein in liver cytosol of female Sprague-dawley rats treated with aryl hydrocarbon receptor agonists, 347:787
Brazeau, C., *See* Sheehan, J. K.
Bredoux, R., *See* Lacabaratz-Porret, C.
Breer, H., *See* Loebel, D.
Breillat, C., *See* McNair, A.
Breton, J. J., *See* Gardner, R. C.
Breton, J. L., *See* Busch, J. L. H.
Briat, J.-F., *See* Curie, C.
Brickell, P. M., *See* Ameixa, C.
Brinck, J., *See* Jacobson, A.
Brindle, K. M., *See* Urbano, A. M.
Brindley, D. N., *See* Zhang, Q.-X.
Brinkmann, J., *See* Kruse, C.
Briskin, M. J., *See* Jacobson, A.
Britigan, B. E., *See* McCormick, M. L.
Broady, K. W., *See* Hains, P. G.
Brocklehurst, K., *See* Noble, M. A.; Resmini, M.
Brockly, F., *See* Pariat, M.
Brodsky, B., *See* Deprez, P.
Broekaert, D., *See* Waelput, W.
Bröer, A.
——; Wagner, C. A.; Lang, F.; Bröer, S.
The heterodimeric amino acid transporter 4F2hc/y$^+$LAT2 mediates arginine efflux in exchange with glutamine, 349:787
——; Wagner, C.; Lang, F.; Bröer, S.
Neutral amino acid transporter ASCT2 displays substrate-induced Na^+ exchange and a substrategated anion conductance, 346:705
Bröer, S., *See* Bröer, A.; Dimer, K.-S.

© 2001 Biochemical Society

Brooks, P.
——; Fuertes, G.; Murray, R. Z.; Bose, S.; Knecht, E.; Rechsteiner, M. C.; Hendil, K. B.; Tanaka, K.; Dyson, J.; Rivett, A. J.
Subcellular localization of proteasomes and their regulatory complexes in mammalian cells, 346:155
——; Murray, R. Z.; Mason, G. G. F.; Hendil, K. B.; Rivett, A. J.
Association of immunoproteasomes with the endoplasmic reticulum, 352:611
Brose, N., *See* Koch, H.
Brosnan, J. T., *See* Stead, L. M.
Brosnan, M. E., *See* Stead, L. M.
Brossard, N., *See* Croset, M.
Brown, D. R.
——; Altered toxicity of the prion protein peptide PrP106—126 carrying the Ala^{117}→Val mutation, 346:785
——; PrP^{Sc}-like prion protein peptide inhibits the function of cellular prion protein, 352:511
——; Wong, B.-S.; Hafiz, F.; Clive, C.; Haswell, S. J.; Jones, I. M.
Normal prion protein has an activity like that of superoxide dismutase, 345:767
Brown, G. C., *See* Kholodenko, B. N.
Brown, N. F., *See* McGarry, J. D.
Brown, S. C., *See* Minic, Z.
Bruce, L. J.
——; Wrong, O.; Toye, A. M.; Young, M. T.; Ogle, G.; Ismail, Z.; Sinha, A. K.; McMaster, P.; Hwaihwanje, I.; Nash, G. B.; Hart, S.; Lavu, E.; Palmer, R.; Othman, A.; Unwin, R. J.; Tanner, M. J. A.
Band 3 mutations, renal tubular acidosis and South-East Asian ovalocytosis in Malaysia and Papua New Guinea: loss of up to 95% band 3 transport in red cells, 350:41, 351:839
Bruce, N. C., *See* Walker, E. H.
Bruhat, A., *See* Fafournoux, P.
Brummel, M., *See* Abbadi, A.
Brun, S., *See* Alvarez, R.
Brunati, A. M.
——; Marin, O.; Bisinella, A.; Salviati, A.; Pinna, L. A.
Novel consensus sequence for the Golgi apparatus casein kinase, revealed using proline-rich protein-1 (PRP1)-derived peptide substrates, 351:765
Bruneau, N., *See* Nganga, A.
Bryson, H.
——; Buttle, D. J.; Kozaci, L. D.; Johnatty, R. N.; Bunning, R. A. D.
Evidence that the inhibition of cartilage proteoglycan breakdown by mannosamine is not mediated via inhibition of glycosylphosphatidylinositol anchor formation, 345:495
Brzozowski, A. M., *See* Davies, G. J.
Buck, M., *See* Scott, D. J.
Buckingham, J. A., *See* Cadenas, S.
Buettner, G. R., *See* McCormick, M. L.
Buggy, J. J.
——; Sideris, M. L.; Mak, P.; Lorimer, D. D.; McIntosh, B.; Clark, J. M.
Cloning and characterization of a novel human histone deacetylase, HDAC8, 350:199
Bullock, J., *See* Qabar, A. N.
Bunning, R. A. D., *See* Bryson, H.
Burczynski, M. E., *See* Penning, T. M.
Burford, N. T.
——; Wang, D.; Sadée, W.
G-protein coupling of μ-opioid receptors (OP_3): elevated basal signalling activity, 348:531
Burgaya, F., *See* Toutant, M.
Bürger, F.
——; Krieg, P.; Marks, F.; Fürstenberger, G.
Positional- and stereo-selectivity of fatty acid oxygenation catalysed by mouse (12*S*)-lipoxygenase isoenzymes, 348:329
Burgoyne, R. D., *See* Duncan, J. S.
Burns, S. P.
——; Murphy, H. C.; Iles, R. A.; Bailey, R. A.; Cohen, R. D.
Hepatic intralobular mapping of fructose metabolism in the rat liver, 349:539
Busch, J. L. H.
——; Breton, J. L.; Davy, S. L.; James, R.; Moore, G. R.; Armstrong, F. A.; Thomson, A. J.
Ferredoxin III of *Desulfovibrio africanus:* sequencing of the native gene and characterization of a histidine-tagged form, 346:375
Busch, S., *See* Kruse, C.
Butler, C. S.
——; Charnock, J. M.; Garner, C. D.; Thomson, A. J.; Ferguson, S. J.; Berks, B. C.; Richardson, D. J.
Thiocyanate binding to the molybdenum centre of the periplasmic nitrate reductase from *Paracoccus pantotrophus,* 352:859
Buttle, D. J., *See* Bryson, H.

Cacheux, V., *See* Gilgès, D.
Cacho, J., *See* Klatt, P.
Cadenas, S.
——; Brand, M. D.
Effects of magnesium and nucleotides on the proton conductance of rat skeletal-muscle mitochondria, 348:209
——; Buckingham, J. A.; St-Pierre, J.; Dickinson, K.; Jones, R. B.; Brand, M. D.
AMP decrease the efficiency of skeletal-muscle mitochondria, 351:307
Cadens, E., *See* Schöpfer, F.
Cadepond, F., *See* Massaad, C.
Caillol, N., *See* Pasqualini, E.
Cairo, G.
——; Pietrangelo, A.
Iron regulatory proteins in pathobiology, 352:241
Caivano, M., *See* Davies, S. P.
Cakir-Kiefer, C.
——; Muller-Steffner, H.; Schuber, F.
Unifying mechanism for *Aplysia* ADP-ribosyl cyclase and CD38/NAD$^+$ glycohydrolases, 349:203
Caldarera, C. M., *See* Stefanelli, C.
Caldas, C., *See* So, C. W.
Calero, M., *See* McCormick, C. C.; Tokuda, T.
Calés, C., *See* Moreno-Bueno, G.
Callahan, J. W., *See* Zhang, S.
Callebaut, I., *See* Gilgès, D.
Callewaert, G., *See* Vanlingen, S.
Calvete, J. J.
——; Jürgens, M.; Marcinkiewicz, C.; Romero, A.; Schrader, M.; Niewiarowski, S.
Disulphide-bond pattern and molecular modelling of the dimeric disintegrin EMF-10, a potent and selective integrin $\alpha_5\beta_1$ antagonist from *Eristocophis macmahoni* venom, 345:573
Camacho, A.
——; Hidalgo-Zarco, F.; Bernier-Villamor, V.; Ruiz-Pérez, L. M.; González-Pacanowska, D.
Properties of *Leishmania major* dUTP nucleotidohydrolase, a distinct nucleotide-hydrolysing enzyme in kinetoplastids, 346:163
Camarasa, M.-J., *See* Balzarini, J.
Cameselle, J. C., *See* Ribeiro, J. M.
Camici, G., *See* Paoli, P.
Campbell, D. G., *See* Dowler, S.
Campopiano, D. J., *See* Leadbeater, C.
Campos, J. A., *See* Gómez-Fabre, P. M.
Campos, N., *See* Charon, L.
Camps, M., *See* Enrique-Tarancón, G.
Candido, E. P. M., *See* Ding, L.
Canevari, L., *See* Werner, E. R.
Cannon, B., *See* Andersson, U.; Bengtsson, T.
Cantrell, D., *See* Dowler, S.
Cao, Y., *See* Kang, Q.
Cao, Y.-X.
——; Jean, J.-C.; Williams, M. C.
Cytosine methylation of an Sp1 site contributes to organ-specific and cell-specific regulation of expression of the lung epithelial gene *T1*α, 350:883
Caramelo, J. J.
——; Florín-Christensen, J.; Florín-Christensen, M.; Delfino, J. M.
Mapping the catalytic pocket of phospholipases A_2 and C using a novel set of phosphatidylcholines, 346:679
Carde, J.-P., *See* Lurin, C.
Carillo, S., *See* Pariat, M.
Carlberg, C., *See* Toell, A.
Carling, D., *See* Cheung, P. C. F.; Stein, S. C.
Carlsson, B., *See* Njålsson, R.
Carlsson, K., *See* Njålsson, R.
Carlstedt, I., *See* Wickström, C.
Carlsten, M., *See* Rundlöf, A.-K.
Carmona, E., *See* Portaro, F. C. V.
Carnaghi, L., *See* Ritter, D.
Carnegie, G. K., *See* Hastie, C. J.
Carnuccio, R., *See* D'Acquisto, F.
Caro, J., *See* Thornton, R. D.
Carpéne, C., *See* Enrique-Tarancón, G.
Carpentier, M., *See* Ghaddar, G.
Carr, A. C.
——; Tijerina, T.; Frei, B.
Vitamin C protects against and reverses specific hypochlorous acid- and chloramine-dependent modifications of low-density lipoprotein, 346:491
Carraway, K. L., *See* Price-Schiavi, S. A.
Carreras, M. C., *See* Schöpfer, F.
Carrero, I., *See* Couvineau, A.
Carretero, M. V., *See* Fresno Vara, J. A.
Carter, S., *See* Resmini, M.
Casalone, E., *See* Allocati, N.
Casamitjana, R., *See* Enrique-Tarancón, G.
Cascante, M.
——; Centelles, J. J.; Agius, L.
Use of α-toxin from *Staphylococcus aureus* to test for channelling of intermediates of glycolysis between glucokinase and aldolase in hepatocytes, 352:899
Cass, C. E., *See* Parker, M. D.
Cass, J. D., *See* Parker, M. D.
Castagnola, M., *See* Corda, M.
Castan, I., *See* Enrique-Tarancón, G.
Castilho, B. A., *See* Thompson, G. M.
Caterer, N. R., *See* Lorentsen, R. H.
Caterson, B., *See* Rees, S. G.
Caudevilla, C., *See* Eggers, A.
Cèbe, R.
——; Geiser, M.
Size of the ligand complex between the N-terminal domain of the gene

© 2001 Biochemical Society

III coat protein and the non-infectious phage strongly influences the usefulness of *in vitro* selective infective phage technology, 352:841
Centelles, J. J., *See* Cascante, M.
Cereghini, S., *See* McNair, A.
Cervantes-Laurean, D., *See* Wondrak, G. T.
Cezari, M. H. S., *See* Portaro, F. C. V.
Chabanon, H.
——; Persson, L.; Wallace, H. M.; Ferrara, M.; Brachet, P.
Increased translation efficiency and antizyme-dependent stabilization of ornithine decarboxylase in amino acid-supplemented human colon adenocarcinoma cells, Caco-2, 348: 401
Chabot-Fletcher, M. C., *See* Gardner, R. C.
Chakrabarti, D., *See* Bracchi-Ricard, V.
Chakrabarti, R., *See* Bracchi-Ricard, V.
Chambaz, E. M., *See* Rocchi, S.
Chamorro, C., *See* Balzarini, J.
Chamoy, L.
——; Nicolaï, M.; Quennedey, B.; Gaill, F.; Delachambre, J.
Characterization of a cDNA encoding RP43, a CUB-domain-containing protein from the tube of *riftia pachyptila* (Vestimentifera), and distribution of its transcript, 350:421
Chan, L. C., *See* So, C. W.
Chan, W.-H.
——; Yu, J.-S.; Yang, S.-D.
Apoptotic signalling cascade in photosensitized human epidermal carcinoma A431 cells: involvement of singlet oxygen, c-Jun N-terminal kinase, caspase-3 and p21-activated kinase 2, 351:221
Chance, E. M., *See* Beeton, C. A.
Chang, A. C., *See* Jellinek, D. A.
Chang, T.-J., *See* Ho, T.-Y.
Chang, Y.-W. E., *See* McGinty, A.
Chang, Y.-Y.
——; Cronan, J. E., Jr.
Conversion of *Escherichia coli* pyruvate oxidase to an 'α-ketobutyrate oxidase', 352:717
Chao, Y.-C., *See* Chou, H.-K.
Chap, H., *See* Giuriato, S.
Chapman, B., *See* Kurland, I. J.
Chapman, S. K., *See* Gordon, E. H. J.; Leadbeater, C.
Charnock, J. M., *See* Butler, C. S.
Charon, L.
——; Hoeffler, J.-F.; Pale-Grosdemange, C.; Lois, L.-M.; Campos, N.; Boronat, A.; Rohmer, M.
Deuterium-labelled isotopomers of 2-*C*-methyl-D-erythritol as tools for the elucidation of the 2-*C*-methyl-D-erythritol 4-phosphate pathway for isoprenoid biosynthesis, 346:737
Chasteen, N. D., *See* Yang, X.
Checa, M^{a}L., *See* Alvarez, R.
Chen, A., *See* Weiner, J. A.
Chen, C., *See* Tu, Q.; Zeng, Z.
Chen, D.
——; Ruzicka, F. J.; Frey, P. A.
A novel lysine 2,3-aminomutase encoded by the *yodO* gene of *Bacillus subtilis:* characterization and the observation of organic radical intermediates, 348:539
Chen, F., *See* Nagarajan, R. P.
Chen, H.
——; Ishii, A.; Wong, W.-K.; Chen, L. B.; Lo, S. H.
Molecular characterization of human tensin, 351:403
Chen, J., *See* Nguyen, V.-A. T.; Sliva, D.
——; Patton, J. R.
Mouse pseudouridine synthase 1: gene structure and alternative splicing of pre-mRNA, 352:465
Chen, J.-H., *See* Takeuchi, H.
Chen, J.-M.
——; Fortunato, M.; Barrett, A. J.
Activation of human prolegumain by cleavage at a C-terminal asparagine residue, 352:327
Chen, K.-Y., *See* Xia, R.-H.
Chen, L. B., *See* Chen, H.
Chen, P., *See* Hutter, D.
Chen, Q. M.
——; Liu, J.; Merrett, J. B.
Apoptosis or senescence-like growth arrest: influence of cell-cycle position, p53, p21 and bax in h_2O_2 response of normal human fibroblasts, 347:543
Chen, S. C. A.
——; Wright, L. C.; Golding, J. C.; Sorrell, T. C.
Purification and characterization of secretory phospholipase B_1 lysophospholipase and lysophospholipase/transacylase from a virulent strain of the pathogenic fungus *Cryptococcus neoformans,* 347:431
Chen, S.-L., *See* Chou, H.-K.; Kassis, S.
Chen, W., *See* Jin, J.-P.; Zheng, L.
Chen, Y., *See* Nagarajan, R. P.
Chen, Y.-H.
——; He, R.-Q.; Liu, Y.; Liu, Y.; Xue, Z.-G.
Effect of human neuronal tau on denaturation and reactivation of rabbit muscle D-glyceraldehyde-3-phosphate dehydrogenase, 351:233
Cheng, X.-Y., *See* Xia, R.-H.
Cheniclet, C., *See* Lurin, C.
Chesneau, V., *See* Hospital, V.
——; Vekrellis, K.; Rosner, M. R.; Selkoe, D. J.
Purified recombinant insulin-degrading enzyme degrades amyloid β-protein but does not promote its oligomerization, 351:509
Chesrown, S. E., *See* Rogers, R. J.
Chester, K. A., *See* Boehm, M. K.
Cheung, N., *See* So, C. W.
Cheung, P. C. F.
——; Salt, I. P.; Davies, S. P.; Hardie, D. G.; Carling, D.
Characterization of AMP-activated protein kinase γ-subunit isoforms and their role in AMP binding, 346: 659
Chevalier, J.
——; Malléa, M.; Pagès, J.-M.
Comparative aspects of the diffusion of norfloxacin, cefepime and spermine through the F porin channel of *enterobacter cloacae*, 348: 223
Chew, S. L., *See* So, C. W.
Chi, C.-W., *See* Dai, L.; Lee, H.-C.
Chiancone, E., *See* Yang, X.
Chiariello, M.
——; Gomez, E.; Gutkind, J. S.
Regulation of cyclin-dependent kinase (CdK) 2 Thr-160 phosphorylation and activity by mitogen-activated protein kinase in late G_1 phase, 349: 869
Chijiwa, T.
——; Deshimaru, M.; Nobuhisa, I.; Nakai, M.; Ogawa, T.; Oda, N.; Nakashima, K.-i.; Fukumaki, Y.; Shimohigashi, Y.; Hattori, S.; Ohno, M.
Regional evolution of venom-gland phospholipase A_2 isoenzymes of *trimeresurus flavoviridis* snakes in the southwestern islands of Japan, 347: 491
Chinsky, J. M., *See* Costeas, P. A.
Chitambar, C. R.
——; Wereley, J. P.; Heiman, T.; Antholine, W. E.; O'Brien, W. J.
Cellular adaptation to down-regulated iron transport into lymphoid leukaemic cells: effects on the expression of the gene for ribonucleotide reductase, 345:681
Chittatu, A., *See* Dombrowski, F.
Cho, M. J., *See* Lee, S. H.
Cho, S. Y.
——; Jeon, J. W.; Lee, S. H.; Park, S. S.
p67 isoform of mouse disabled 2 protein acts as a transcriptional activator during the differentiation of F9 cells, 352:645
Cho, W., *See* Kim, K. P.
Choi, E. J., *See* Park, K. C.
Choi, J.-K., *See* Guo, W.
Choi, K., *See* Moon, I.-J.
Choi, K.-Y., *See* Lee, W.-J.
Choi, S.-O., *See* Koo, H. M.
Chou, H.-K.
——; Chen, S.-L.; Hsu, C.-T.; Chao, Y.-C.; Tsao, Y.-P.
Bcl-2 accelerates retinoic-acid-induced growth arrest and recovery in hu7man gastric cancer cells, 348:473
Chow, L.-P.
——; Liu, S.-L.; Yu, C.-J.; Liao, H.-K.; Tsai, J.-J.; Tang, T.-K.
Identification and expression of an allergen Asp f 13 from *Apergillus fumigatus* and epitope mapping using human IgE antibodies and rabbit polyclonal antibodies, 346:423
Chow, R. H., *See* Duncan, R. R.
Chrétien, M., *See* Lissitzky, J.-C.
Christ, B., *See* Rucktäschel, A. K.
Christensen, U.
——; pH-dependence of the fast step of maltose hydrolysis catalysed by glucamylase G1 from *Aspergillus niger,* 349:623
Christersson, C., *See* Wickström, C.
Christie, G., *See* Gardner, R. C.; Ward, R. V.
Christie, G. R., *See* Peter, G. J.
Chu, Y. X., *See* Jones, G.
Chuang, L.-T., *See* Leonard, A. E.
Chung, B.-c., *See* Lin, W.-w.
Chung, C. H., *See* Kim, S. S.; Park, K. C.
Chung, S. K., *See* So, C. W.
Chung, S. S., *See* Park, K. C.
Churchill, G. C., *See* Patel, S.
Ciruela, A.
——; Hinchliffe, K. A.; Divecha, N.; Irvine, R. F.
Nuclear targeting of the β isoform of Type II phosphatidylinositol phosphate kinase (phosphatidylinositol 5-phosphate 4-kinase) by its α-helix 7, 346:587
Claeyssens, M., *See* Ntarima, P.
Clark, A. E., *See* Pryor, P. R.
Clark, J. E.
——; Foresti, R.; Green, C. J.; Motterlini, R.
Dynamics of haem oxygenase-1 expression and bilirubin production in cellular protection against oxidative stress, 348:615
Clark, J. M., *See* Buggy, J. J.
Clarke, J. T. R., *See* Zhang, S.
Cleary, J. D.
——; Mangroo, D.
Nucleotides of the tRNA D-stem that play an important role in nuclear-tRNA export in *Saccharomyces cerevisiae*, 347:115
Clement, E., *See* Orsi, A.
Clifton, I. J., *See* Wright, P. A.

© 2001 Biochemical Society

Clive, C., *See* Brown, D. R.
Cloos, P. A. C., *See* Gineyts, E.
——; Fledelius, C.
Collagen fragments in urine derived from bone resorption are highly racemized and isomerized: a biological clock of protein aging with clinical potential, 345:473
Clotet, J., *See* Morillas, M.
Cluzeaud, F., *See* Ogier-Denis, E.
Coates, L. C., *See* Hill, R. M.
Coburn, J., *See* Hartshorn, K. L.
Coccetti, P., *See* Russo, G. L.
Cockcroft, S., *See* Swigart, P.; Way, G.
Coddington-Lawson, S. J., *See* Farr, T. J.
Codogno, P., *See* Ogier-Denis, E.
Coe, P. L., *See* Verri, A.
Coffer, P. J., *See* Versteeg, H. H.
Cogdell, R. J., *See* Ridge, J. P.
Coggins, J. R., *See* Levett, L. J.
Cohen, G. M., *See* MacFarlane, M.
Cohen, P., *See* Davies, S. P.; Fleming, Y.; Hospital, V.; Lizcano, J. M.
Cohen, P. T. W., *See* Hastie, C. J.; Helps, N. R.
Cohen, R. D., *See* Burns, S. P.
Colavitti, R., *See* Pani, G.
Coletta, M., *See* Santucci, R.
Colli, W., *See* Bertello, L. E.
Collins, S. P.
——; Reoma, J. L.; Gamm, D. M.; Uhler, M. D.
LKB1, a novel serine/threonine protein kinase and potential tumour suppressor, is phosphorylated by cAMP-dependent protein kinase (PKA) and prenylated *in vivo*, 345: 673
Collins, T. J.
——; Lipp, P.; Berridge, M. J.; Li, W.; Bootman, M. D.
Inositol 1,4,5-trisphosphate-induced Ca^{2+} release is inhibited by mitochondrial depolarization, 347: 593
Collinsworth, G., *See* Mukhin, Y. V.
Colonna, A., *See* Festa, M.
Colton, L. A., *See* Routes, J. M.
Comfurius, P., *See* Dekkers, D. W. C.
Conner, J., *See* Sun, Y.
Cook, S., *See* Woodman, Z. L.
Cooke, F. T., *See* Hughes, W. E.
Coombs, G. H., *See* Sanderson, S. J.; Sharma, D. K.
Cooper, C. E., *See* Svistunenko, D. A.
Cooper, W. N., *See* Martin, K. M.
Čopič, A., *See* Prijatelj, P.
Corda, M.
——; De Rosa, M. C.; Pellegrini, M. G.; Sanna, M. T.; Olianas, A.; Fais, A.; Manca, L.; Masala, B.; Zappacosta, B.; Ficarra, S.; Castagnola, M.; Giardina, B.
Adult and fetal haemoglobin J-Sardegna [α50(CE8)His→Asp]: functional and molecular modelling studies, 346:193
Cordes, K. A., *See* Salhany, J. M.
Corkey, B. E., *See* Guo, W.
Corper, A. L., *See* Boehm, M. K.
Corvazier, E., *See* Lacabaratz-Porret, C.
Cosgrove, L., *See* Elleman, T. C.
Costa, A., *See* Toutant, M.
Costas, M. J., *See* Ribeiro, J. M.
Costeas, P. A.
——; Chinsky, J. M.
Glucocorticoid regulation of branched-chain α-ketoacid dehydrogenase E2 subunit gene expression, 347:449
Coulombe, R., *See* Ahvazi, B.
Coulombel, L., *See* Gilgès, D.
Coulonval, K.
——; Vandeput, F.; Stein, R. C.; Kozma, S. C.; Lamy, F.; Dumont, J. E.
Phosphatidylinositol 3-kinase, protein kinase B and ribosomal S6 kinases in the stimulation of thyroid epithelial cell proliferation by cAMP and growth factors in the presence of insulin, 348:351
Coussin, F., *See* Boittin, F.-X.
Couvineau, A.
——; Maoret, J.-J.; Rouyer-Fessard, C.; Carrero, I.; Laburthe, M.
The human vasoactive intestinal peptide/pituitary adenylate cyclase-activating peptide receptor 1 (VPAC1) promoter: characterization and role in receptor expression during enterocytic differentiation of the colon cancer cell line Caco-2Cl.20, 347:623
Cozier, G.
——; Sessions, R.; Bottomley, J. R.; Reynolds, J. S.; Cullen, P. J.
Molecular modelling and site-directed mutagenesis of the inositol 1,32,4,5-tetrakisphosphate-binding pleckstrin homology domain from the Ras GRPase-activating protein $GAP1^{IP4BP}$, 349:333
Creasy, C. L., 0
Creemers, J. W. M., *See* van de Loo, J.-W. H. P.
Crespo, A.
——; Filla, M. B.; Russell, S. W.; Murphy, W. J.
Indirect induction of suppressor of cytokine signalling-1 in macrophages stimulated with bacterial lipopolysaccharide: partial role of autocrine/paracrine interferon-α/β, 349:99
Crespo, M. D., *See* Klatt, P.
Crestani, M., *See* De Fabiani, E.
Cribier, S., *See* Foucault, G.
Crilly, K. S., *See* Huang, J.-S.
Crine, P., *See* Ghaddar, G.
Croci, G., *See* Monti, E.
Cronan, J. E., Jr., *See* Chang, Y.-Y.
Crone, T. M., *See* Xu-Welliver, M.
Croset, M.
——; Brossard, N.; Polette, A.; Lagarde, M.
Characterization of plasma unsaturated lysophosphatidylcholines in human and rat, 345:61
Cross, A. R.
——; $p40^{phox}$ participates in the activation of NADPH oxidase by increasing the affinity of $p47^{phox}$ for flavocytochrome b_{558}, 349:113
Cross, C. E., *See* Reddy, S.
Crouch, E. C., *See* Hartshorn, K. L.
Crowley, J. R., *See* Hazen, S. L.
Crumm, S., *See* Marcinkeviciute, A.
Csala, M.
——; Mile, V.; Benedetti, A.; Mandl, J.; Bánhegyi, G.
Ascorbate oxidation is a prerequisite for its transport into rat liver microsomal vesicles, 349:413
Cuezva, J. M., *See* Di Liegro, C. M.; Izquierdo, J. M.
Cullen, P. J., *See* Cozier, G.; Millard, T. H.; Venkateswarlu, K.
Cunnick, J. M., *See* Sekharam, M.
Cunningham, O.
——; Gore, M. G.; Mantle, T. J.
Initial-rate kinetics of the flavin reductase reaction catalysed by human biliverdin-IXβ reductase (BVR-B), 345:393
Curie, C.
——; Alonso, J. M.; Le Jean, M.; Ecker, J. R.; Briat, J.-F.
Involvement of NRAMP1 from *Arabidopsis thaliana* in iron transport, 347:749
Curley, K., *See* Yan, X.
Currie, R. A., *See* Dowler, S.
Cuthbertson, P. M., *See* Gordon, E. H. J.
Cygler, M., *See* Dutt, P.
Czarny, M., *See* Liscovitch, M.

D'Acquisto, F.
——; Lanzotti, V.; Carnuccio, R.
Cyclolinteinone, a sesterterpene from sponge *Cacospongia linteiformis*, prevents inducible nitric oxide synthase and inducible cyclo-oxygenase protein expression by blocking nuclear factor-κB activation in J774 macrophages, 346: 793
Dai, L.
——; Wu, J.-J.; Gu, Y.-H.; Lan, Z.-D.; Ling, M.-H.; Chi, C.-W.
Genomic organization of three novel toxins from the scorpion *Buthus martensi* Karsch active on potassium channels, 346:805
Damas, A. M., *See* Redondo, C.; Sebastião, M. P.
Dancer, J. E., *See* Jones, A. L.
D'Andrea, R. J., *See* Pitson, S. M.
Daniel, P. T., *See* Essmann, F.
Daniel, R. M., *See* Dunn, R. V.; Toogood, H. S.
Danlois, F.
——; Zaltash, S.; Johansson, J.; Robertson, B.; Haagsman, H. P.; van Eijk, M.; Beers, M. F.; Rollin, F.; Ruysschaert, J.-M.; Vandenbussche, G.
Very low surfactant protein C contents in newborn Belgian White and Blue calves with respiratory distress syndrome, 351:779
Danpure, C. J., *See* Knott, T. G.
Darley, C. P.
——; van Wuytswinkel, O. C. M.; van der Woude, K.; Mager, W. H.; de Boer, A. H.
Arabidopsis thaliana and *Saccharomyces cerevisiae NHX1* genes encode amiloride sensitive electroneutral Na^+/H^+ exchangers, 351:241
Das, T., *See* Leonard, A. E.
D'Auria, S., *See* Grießler, R.
Dauter, M., *See* Davies, G. J.
Daveau, M., *See* Olivier, E.
Davies, G. J.
——; Brzozowski, A. M.; Dauter, M.; Varrot, A.; Schülein, M.
Structure and function of *Humicola insolens* family 6 cellulases: structure of the endoglucanase, Cel6B, at 1.6 Å resolution, 348:201
Davies, J. R., *See* Wickström, C.
Davies, M. C., *See* Deacon, M. P.
Davies, N. A., *See* Svistunenko, D. A.
Davies, S. P., *See* Cheung, P. C. F.
——; Reddy, H.; Caivano, M.; Cohen, P.
Specificity and mechanism of action of some commonly used protein kinase inhibitors, 351:95
Davioud-Charvet, E., *See* Glineur, C.
Davis, B. H., *See* Weiner, J. A.
Davis, D. A.
——; Newcomb, F. M.; Moskovitz, J.; Wingfield, P. T.; Stahl, S. J.; Kaufman, J.; Fales, H. M.; Levine, R. L.; Yarchoan, R.
HIV-2 protease is inactivated after oxidation at the dimer interface and activity can be partly restored with

© 2001 Biochemical Society

methionine sulphoxide reductase, 346:305
Davis, J. B., *See* Ward, R. V.
Davis, M. G.
——; Kawai, Y.; Arinze, I. J.
Involvement of $G_1\alpha 2$ in sodium butyrate-induced erythroblastic differentiation of K562 cells, 346:455
Davis, S. S. (Bob), *See* Deacon, M. P.
Davis, W. L., *See* Dobransky, T.
Davison, M. D., *See* Stein, S. C.
Davril, M., *See* Guerardel, Y.
Davy, S. L., *See* Busch, J. L. H.
Dé, E., *See* Bolla, J. M.
Deacon, M. P.
——; McGurk, S.; Roberts, C. J.; Williams, P. M.; Tendler, S. J. B.; Davies, M. C.; Davis, S. S. (Bob); Harding, S. E.
Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems, 348:557
Deak, M., *See* Dowler, S.
Dean, M. F.
——; Sansom, P.
Link peptide cartilage growth factor is degraded by membrane proteinases, 349:473
de Beer, F., *See* Tacken, P. J.
de Boer, A. H., *See* Darley, C. P.
De Clercq, E., *See* Balzarini, J.; Verri, A.
De Fabiani, E.
——; Crestani, M.; Marrapodi, M.; Pinelli, A.; Golfieri, V.; Galli, G.
Identification and characterization of *cis*-acting elements conferring insulin responsiveness on hamster cholesterol 7-hydroxylase gene promoter, 347:147
Degerman, E., *See* Enrique-Tarancón, G.; Landström, T. R.
DeGroot, J., *See* Verzijl, N.
Deguchi, M., *See* Ohta, S.
de Gunzburg, J., *See* Traver, S.
Deibel, M. R., Jr., *See* Powers, E. A.
Deitmer, J. W., *See* Dimer, K.-S.
Dekker, L. V., *See* Reeves, E. P.
——; Leitges, M.; Altschuler, G.; Mistry, N.; McDermott, A.; Roes, J.; Segal, A. W.
Protein kinase C-2 contributes to NADPH oxidase activation in neutrophils, 347:285
Dekkers, D. W. C.
——; Comfurius, P.; van Gool, R. G. J.; Bevers, E. M.; Zwaal, R. F. A.
Multidrug resistance protein 1 regulates lipid asymmetry in erythrocyte membranes, 350:531
de Kouchkovsky, Y., *See* Minic, Z.
de Kruijff, B., *See* van Voorst, F.
Delachambre, J., *See* Chamoy, L.
Delannoy, P., *See* Harduin-Lepers, A.
del Arco, A.
——; Agudo, M.; Satrústegui, J.
Characterization of a second member of the subfamily of calcium-binding mitochondrial carriers expressed in human non-excitable tissues, 345: 725
Delarge, M., *See* Ahvazi, B.
del Carmen Medina, L.
——; Vázquez-Prado, J.; García-Sáinz, J. A.
Cross-talk between receptors with intrinsic tyrosine kinase activity and α_{1b}-adrenoceptors, 350:413
del Castillo-Olivares, A., *See* Gómez-Fabre, P. M.
Del Conte, R., *See* Santucci, R.
de Lederkremer, R. M., *See* Bertello, L. E.
Delfino, J. M., *See* Caramelo, J. J.
Delmas, P. D., *See* Gineyts, E.
de los Pinos, E., *See* Fernández de Mattos, S. F.
Delpierre, G.
——; Vanstapel, F.; Stroobant, V.; Van Schaftingen, E.
Conversion of a synthetic fructosamine into its 3-phospho derivative in human erythrocytes, 352:835
DelVecchio, C., *See* Bracchi-Ricard, V.
Demin, O., *See* Marcinkeviciute, A.
Dencher, N. A., *See* Seelert, H.
Denning, G. M., *See* McCormick, M. L.
Dennis, R. D., *See* Wuhrer, M.
Dent, C. M., *See* Rees, S. G.
De Petrocellis, L., *See* Bisogno, T.
de Plater, G. M., *See* Torres, A. M.
Deprez, J.
——; Bertrand, L.; Alessi, D. R.; Krause, U.; Hue, L.; Rider, M. H.
Partial purification and characterization of a wortmannin-sensitive and insulin-stimulated protein kinase that activates heart 6-phosphofructo-2-kinase, 347:305
Deprez, P.
——; Doss-Pepe, E.; Brodsky, B.; Inestrosa, N. C.
Interaction of the collagen-like tail of asymmetric acetylcholinesterase with heparin depends on triple-helical conformation, sequence and stability, 350:283
Déral, G., *See* Zapun, A.
de Roo, G., *See* Ren, Q.
De Rosa, M. C., *See* Corda, M.
Desgroseillers, L., *See* Ghaddar, G.
Deshimaru, M., *See* Chijiwa, T.
De Smedt, H., *See* Adkins, C. E.; Vanlingen, S.
De Smet, P., *See* Vanlingen, S.
de Souza, W., *See* Rodrigues, C. O.
Desveaux, D., *See* Faik, A.
de Tand, M.-F., *See* Traver, S.
Deutschel, S. E., *See* Nuttall, S. D.
Devaney, E., *See* Moore, J.
Devreese, B., *See* Ntarima, P.
de Vries, E. E. G., *See* Renes, J.
Dewald, J., *See* Zhang, Q.-X.
Dewaste, V.
——; Pouillon, V.; Moreau, C.; Shears, S.; Takazawa, K.; Erneux, C.
Cloning and expression of a cDNA encoding human inositol 1,4,5-trisphosphate 3-kinase C, 352:343
Díaz-Rodríguez, E.
——; Esparís-Ogando, A.; Montero, J. C.; Yuste, L.; Pandiella, A.
Stimulation of cleavage of membrane proteins by calmodulin inhibitors, 346:359
Dickens, M., *See* MacFarlane, M.
Dickinson, K., *See* Cadenas, S.
Díez-Marqués, M. L., *See* Torrecillas, G.
Di Ilio, C., *See* Allocati, N.
Di Liegro, C. M.
——; Bellafiore, M.; Izquierdo, J. M.; Rantanen, A.; Cuezva, J. M.
3′-Untranslated regions of oxidative phosphorylation mRNAs function *in vivo* as enhancers of translation, 352:109
Di Marzo, V., *See* Bisogno, T.
Dimmer, K.-S.
——; Friedrich, B.; Lang, F.; Deitmer, J. W.; Bröer, S.
The low-affinity monocarboxylate transporter MCT4 is adapted to the export of lactate in highly glycolytic cells, 350:219
Ding, L.
——; Candido, E. P. M.
Association of several small heat-shock proteins with reproductive tissues in the nematode *Caenorhabditis elegans*, 351:13
HSP43, a small heat-shock protein localized to specific cells of the vulva and spermatheca in the nematode *Caenorhabditis elegans*, 349:409
Dinkova, T. D.
——; Aguilar, R.; Sánchez de Jiménez, E.
Expression of maize eukaryotic initiation factor (eIF) iso4E is regulated at the translational level, 351:825
Dintinger, T., *See* Gonçalves, O.
Dirr, H. W., *See* Stevens, J. M.; van der Spuy, J.
Divecha, N., *See* Ciruela, A.
Dix, D. R., *See* Hassett, R.
Do, S.-I.
——; Lee, K.-Y.; Kim, H.-N.
Novel induction of 224-lactalbumin-mediated lacdiNAc-R expression *in vivo*, 348:229
Dobransky, T.
——; Davis, W. L.; Xiao, G.-H.; Rylett, R. J.
Expression, purification and characterization of recombinant human choline acetyltransferase; phosphorylation of the enzyme regulates catalytic activity, 349:141
Docampo, R., *See* Hill, J. E.; Marchesini, N.; Vanderheyden, N.
Docherty, K., *See* Blázquez, M.
Dodt, G.
——; Kim, D. G.; Reimann, S. A.; Reuber, B. E.; McCabe, K.; Gould, S. J.; Mihalik, S. J.
L-Pipecolic acid oxidase, a human enzyme essential for the degradation of L-pipecolic acid, is most similar to the monomeric sarcosine oxidases, 345:487
Doege, H.
——; Bocianski, A.; Joost, H.-G.; Schürmann, A.
Activity and genomic organization of human glucose transporter 9 (GLUT9), a novel member of the family of sugar-transport facilitators predominantly expressed in brain and leucocytes, 350:771
Doege, K., *See* Sandy, J. D.
Doerig, C., *See* Bracchi-Ricard, V.
Dokhac, L., *See* Le Stunff, H.
Dokter, W. H. A., *See* Schuringa, J.-J.
Dolinsky, V. W., *See* Mutter, T.
Dolmazon, R., *See* Luquain, C.
Dombrowski, F.
——; Kubitz, R.; Chittattu, A.; Wettstein, M.; Saha, N.; Häussinger, D.
Electron-microscopic demonstration of multidrug resistance protein 2 (Mrp2) retrieval from the canalicular membrane in response to hyperosmolarity and lijpopolysaccharide, 348:183
Dong, Z., *See* Berdyshev, E. V.
——; Saikumar, P.; Patel, Y.; Weinberg, J. M.; Venkatachalam, M. A.
Serine protease inhibitors suppress cytochrome *c*-mediated caspase-9 activation and apoptosis during hypoxia-reoxygenation, 347:669
Dorado, J., *See* Leonard, A. E.
Doran, E., *See* Owen, M. R.
——; Halestrap, A. P.
Cytochromc c release from isolated rat liver mitochondria cazn occur independently of outer-membrane rupture: possible role of contact sites, 348:343
Dorez, A., *See* Bolla, J. M.
Dörken, B., *See* Essmann, F.
Doss-Pepe, E., *See* Deprez, P.

© 2001 Biochemical Society

Doutheau, A., *See* Kester, H. C. M.
Doverskog, M., *See* Torres, A. M.
Dowler, S.
——; Currie, R. A.; Campbell, D. G.; Deak, M.; Kular, G.; Downes, C. P.
Identification of pleckstrin-homology-domain-containing proteins with novel phosphoinositide-binding specificities, 351:19
——; Montalvo, L.; Cantrell, D.; Morrice, N.; Alessi, D. R.
Phosphoinositide-3-kinase-dependent phosphorylation of the dual adaptor for phosphotyrosine and 3-phosphoinositides by the Src family of tyrosine kinase, 349:605
Downes, C. P., *See* Dowler, S.; Fleming, I. N.; Leslie, N. R.; Parekh, D. B.
Dragneva, Y., *See* Husmann, M.
Drews, G.
——; Krämer, C.; Düfer, M.; Krippeit-Drews, P.
Contrasting effects of alloxan on islets and single mouse pancreatic β-cells, 352:389
Driessen, A. J. M., *See* Müller, J. P.
Drmota, T.
——; Milligan, G.
Kinetic analysis of the internalization and recycling of [^{3}H]TRH and C-terminal truncations of the long isoform of the rat thyrotropin-releasing hormone receptor-1, 346: 711
Drysdale, T. A., *See* Kiss, A.
Du, G., *See* Slaaby, R.
Du, X., *See* Sliva, D.
Dubbelhuis, P. F., *See* van Sluijters, D. A.
Dubyak, G. R., *See* Balasubramanian, S.
Dudás, J.
——; Ramadori, G.; Knittel, T.; Neubauer, K.; Raddatz, D.; Egedy, K.; Kovalszky, I.
Effect of heparin and liver heparan sulphate on interaction of HepG2-derived transcription factors and their *cis*-acting elements: altered potential of hepatocellular carcinoma heparan sulphate, 350: 245
Düfer, M., *See* Drews, G.
Duflot, S., *See* Savini, I.
Duggan, S., *See* Gleseg, S.
Duggleby, R. G., *See* Lee, Y.-T.
Dugué, B., *See* Törnquist, K.
Dumont, J. E., *See* Coulonval, K.
Dumur, C. I., *See* Panzetta-Dutari, G. M.
Duncan, J. S.
——; Wilkinson, M. C.; Burgoyne, R. D.
Purification of golgi casein kinase from bovine milk, 350:564
Duncan, R. R.
——; Apps, D. K.; Learmonth, M. P.; Shipston, M. H.; Chow, R. H.
Is double C2 protein (DOC2) expressed in bovine adrenal medulla? A commercial anti-DOC2 monoclonal antibody recognizes a major bovine mitochondrial antigen, 351:33
Duncombe, R. J., *See* Verri, A.
Dunn, M. J., *See* McGinty, A.
Dunn, R. V.
——; Réat, V.; Finney, J.; Ferrand, M.; Smith, J. C.; Daniel, R. M.
Enzyme activity and dynamics: xylanase activity in the absence of fast anharmonic dynamics, 346:355
Dunne, J., *See* Svistunenko, D. A.
Dupret, J.-M., *See* Goodfellow, G. H.
Dutt, P.
——; Arthur, J. S. C.; Grochulski, P.; Cygler, M.; Elce, J. S.
Roles of individual EF-hands in the activation of m-calpain by calcium, 348:37
Dyall-Smith, M. L., *See* Nuttall, S. D.
Dyck, J. R. B.
——; Berthiaume, L. G.; Thomas, P. D.; Kantor, P. F.; Barr, A. J.; Barr, R.; Singh, D.; Hopkins, T. A.; Voilley, N.; Prentki, M.; Lopaschuk, G. D.
Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism, 350:599
Dyson, J., *See* Brooks, P.

Ebeling, C., *See* Braun, N.
Ebina, Y., *See* Wang, L.
Ebizuka, Y., *See* Suh, D.-Y.
Ebner, R., *See* Krause, S. W.
Eckel, J., *See* Till, M.
Ecker, J. R., *See* Curie, C.
Eckert, R. L., *See* Balasubramanian, S.
Ecochard, L., *See* Roussel, D.
Edwardson, J. M., *See* Hodel, A.
Efimova, T., *See* Balasubramanian, S.
Egedy, K., *See* Dudás, J.
Eggers, A.
——; Caudevilla, C.; Asins, G.; Hegardt, F. G.; Serra, D.
Mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase promoter contains a CREB binding site that regulates cAMP action in Caco-2 cells, 345:201
Ehlers, M. R. W., *See* Woodman, Z. L.
Eide, D. J., *See* Gitan, R. S.; Hassett, R.
Eis, C., *See* Nidetzky, B.
Eisenstein, M., *See* Safran, M.
El-Agnaf, O. M. A., *See* Sian, A. K.
Elce, J. S., *See* Dutt, P.
Eliceiri, G. L., *See* Ruhl, D. D.
Ellar, D. J., *See* Promdonkoy, B.
Elleman, T. C.
——; Frenkel, M. J.; Hoyne, P. A.; McKern, N. M.; Cosgrove, L.; Hewish, D. R.; Jachno, K. M.; Bentley, J. D.; Sankovich, S. E.; Ward, C. W.
Mutational analysis of the N-linked glycosylation sites of the human insulin receptor, 347:771
Ellis, E. M., *See* Kelly, V. P.
Ellis, S. W.
——; Hayhurst, G. P.; Lightfoot, T.; Smith, G.; Harlow, J.; Rowland-Yeo, K.; Larsson, C.; Mahling, J.; Lim, C. K.; Wolf, C. R.; Blackburn, M. G.; Lennard, M. S.; Tucker, G. T.
Evidence that serine 304 is not a key ligand-binding residue in the active site of cytochrome P450 2D6, 345: 565
El-Maghrabi, M. R., *See* Kurland, I. J.
Enderlin, J.-M., *See* Luquain, C.
Endo, Y., *See* Tamura, M.
Enerbäck, L., *See* Karlsson, N. G.
Engel, P. C., *See* Parker, A.
England, K.
——; Rumsby, M. G.
Changes in protein kinase C ϵ phosphorylation status and intracellular localization as 3T3 and 3T6 fibroblasts grow to confluency and quiescence: a role for phosphorylation at Ser-729?, 352:19
Englisch, R.
——; Wurzinger, R.; Fürnsinn, C.; Schneider, B.; Frisch, H.; Waldhäusl, W.; Graf, J.; Roden, M.
Effects of insulin-like growth factor I on basal and stimulated glucose fluxes in rat liver, 351:39
Enouf, J., *See* Lacabaratz-Porret, C.
Enrique-Tarancón, G.
——; Castan, I.; Morin, N.; Marti, L.; Abella, A.; Camps, M.; Casamitjana, R.; Palacín, M.; Testar, X.; Degerman, E.; Carpéne, C.; Zorzano, A.
Substrates of semicarbazide-sensitive amine oxidase co-operate with vanadate to stimulate tyrosine phosphorylation of insulin-receptor-substrate proteins, phosphoinositide 3-kinase activity and GLUT4 translocation in adipose cells, 350: 171
Erichsen, E. S., *See* Fengsrud, M.
Erickson, J. R., *See* Fang, X.
Eriksson, S., *See* Wang, L.
Erneux, C., *See* Dewaste, V.; Giuriato, S.; Takeuchi, H.
Eschrich, K., *See* Herzog, B.
Esgalhado, E., *See* Somsen, O. J. G.
Eskes, R., *See* Antonsson, B.
Esparís-Ogando, A., *See* Díaz-Rodríguez, E.
Esposito, G., *See* Santamaria, R.
Essmann, F.
——; Wieder, T.; Otto, A.; Müller, E.-C.; Dörken, B.; Daniel, P. T.
GDP dissociation inhibitor D4-GDI (Rho-GDI 2), but not the homologous Rho-GDI 1, is cleaved by caspase-3 during drug-induced apoptosis, 346:777
Etzerodt, M., *See* Lorentsen, R. H.
Evans, W. H., *See* Martin, P. E. M.
Evertzen, M., *See* Versteeg, H. H.
Eyckerman, S., *See* Waelput, W.
Ezan, P., *See* Toutant, M.

Fafournoux, P.
——; Bruhat, A.; Jousse, C.
Amino acid regulation of gene expression, 351:1
Faik, A.
——; Desveaux, D.; Maclachlan, G.
Sugar-nucleotide-binding and autoglycosylating polypeptide(s) from nasturtium fruit: biochemical capacities and potential functions, 347:857
Fais, A., *See* Corda, M.
Falany, C. N.
——; Xie, X.; Wang, J.; Ferrer, J.; Falany, J. L.
Molecular cloning and expression of novel sulphotransferase-like cDNAs from human and rat brain, 346:857
Falany, J. L., *See* Falany, C. N.
Fales, H. M., *See* Davis, D. A.
Famulski, K. S., *See* Trabzuni, C.
——; Liuzzi, M.; Bashir, S.; Mirzayans, R.; Paterson, M. C.
Purification and characterization of a novel human acidic nuclease/intracyclobutyl-pyrimidine-dimer-DNA phosphodiesterase, 345:583
Fando, J. L., *See* Martín, M. E.
Fandos, C., *See* Zorzano, A.
Fang, X., *See* Mao, M.
——; Yu, S.; LaPushin, R.; Lu, Y.; Furui, T.; Penn, L. Z.; Stokoe, D.; Erickson, J. R.; Bast, R. C., Jr.; Mills, G. B.
Lysophosphatidic acid prevents apoptosis in fibroblasts via G_i-protein-mediated activation of mitogen-activated protein kinase, 352:135
Farha, K., *See* Kiss, A.
Farid, N. R., *See* Shi, Y.
Farmer, P. B., *See* Lim, C. K.
Farmer, S. W., *See* Jelokhani-Niaraki, M.
Farndale, R. W., *See* Tuckwell, D. S.
Farndon, J. R., *See* Mihai, R.
Farooqui, S., *See* Punn, A.
Farr, T. J.

© 2001 Biochemical Society

——; Coddington-Lawson, S. J.; Snyder, P. M.; McDonald, F. J.
Human Nedd4 interacts with the human epithelial Na^+ channel: WW3 but not WW1 binds to Na^+-channel subunits, 345:503
Favaloro, B.
——; Tamburro, A.; Trofino, M. A.; Bologna, L.; Rotilio, D.; Heipieper, H. J.
Modulation of the glutathione S-transferase in *Ochrobactrum anthropi*: function of xenobiotic substrates and other forms of stress, 346:553
Favier, R., *See* Roussel, D.
Feelisch, M., *See* Orsi, A.
Fein, A., *See* LaPlante, J. M.Lu, X.
Feinstein, M. B., *See* LaPlante, J. M.Lu, X.
Feith, D. J., *See* Mackintosh, C. A.
Feng, J.
——; Shi, J.; Sirimanne, S. R.; Mounier-Lee, C. E.; May, S. W.
Kinetic and stereochemical studies on novel inactivators of C-terminal amidation, 350:521
Fengler, S., *See* Braun, N.
Fengsrud, M.
——; Raiborg, C.; Berg, T. O.; Strømhaug, P. E.; Ueno, T.; Erichsen, E. S.; Seglen, P. O.
Autophagosome-associated variant isoforms of cytosolic enzymes, 352: 773
Feramisco, J. R., *See* Warner, A. J.
Ferguson, A. L., *See* Scott, D. J.
Ferguson, K. M., *See* Lemmon, M. A.
Ferguson, M. A. J., *See* Lischke, A.
Ferguson, S. J., *See* Butler, C. S.
Fernández, A., *See* Ribeiro, J. M.
Fernández de Mattos, S. F.
——; de los Pinos, E.; Joaquin, M.; Tauler, A.
Activation of phosphatidylinositol 3-kinase is required for transcriptional activity of F-type 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase: assessment of the role of protein kinase B and p70 S6 kinase, 349:59
Fernánez-Renart, M., *See* Moreno-Bueno, G.
Ferrand, M., *See* Dunn, R. V.
Ferrara, L., *See* Loebel, D.
Ferrara, M., *See* Chabanon, H.
Ferré, P., *See* Azzout-Marniche, D.
Ferrer, J., *See* Falany, C. N.
Ferrer, J. C., *See* Gomis, R. R.
Ferret, P. J.
——; Soum, E.; Negre, O.; Wollman, E. E.; Fradelizi, D.
Protective effect of thioredoxin upon NO-mediated cell injury in THP1 monocytic human cells, 346:759
Fertala, A., *See* Yuan, C. M.
Festa, M.
——; Colonna, A.; Pietropaolo, C.; Ruffo, A.
Oxalomalate, a competitive inhibitor of aconitase, modulates the RNA-binding activity of iron-regulatory proteins, 348:315
Ficarra, S., *See* Corda, M.
Fickel, S., *See* Goppelt-Strube, M.
Field, J. A., *See* ten Have, R.
Field, L. M.
——; Methylation and expression of amplified esterase genes in the aphid *Myzus persicae* (Sulzer), 349: 863
Filla, M. B., *See* Crespo, A.
Finegood, D. T., *See* Xie, W.
Fini, C., *See* Loebel, D.
Finkelstein, L. D.
——; Shimizu, Y.
Role of phosphoinositide 3-kinase and the Cbl adaptor protein in coupling the $\alpha 4\beta 1$ integrin to mitogen-activated protein kinase signalling, 345:385
Finlin, B. S.
——; Shao, H.; Kadono-Okuda, K.; Quo, N.; Andres, D. A.
Rem2, a new member of the Rem/Rad/Gem/Kir family of Ras-related GTPases, 347:223
Finney, J., *See* Dunn, R. V.
Fischer, J. A., *See* Leuthäuser, K.
Fisher, C., *See* Powers, E. A.
Fitzgerald, S., *See* Brady, K.
Fitzsimmons, T. J.
——; Gukovsky, I.; McRoberts, J. A.; Rodriguez, E.; Lai, F. A.; Pandol, S. J.
Multiple isoforms of the ryanodine receptor are expressed in rat pancreatic acinar cells, 351:265
Fiucci, G., *See* Liscovitch, M.
Flamigni, F., *See* Stefanelli, C.
Flannery, C. R., *See* Rees, S. G.
Fledelius, C., *See* Cloos, P. A. C.
Fleischmann, M., *See* Iynedjian, P. B.
——; Iynedjian, P. B.
Regulation of sterol regulatory-element binding protein 1 gene expression in liver: role of insulin and protein kinase B/cAkt, 349:13
Fleming, I. N.
——; Gray, A.; Downes, C. P.
Regulation of the Rac1-specific exchange factor Tiam1 involves both phosphoinositide 3-kinase-dependent and -independent components, 351:173
Fleming, Y.
——; Armstrong, C. G.; Morrice, N.; Paterson, A.; Goedert, M.; Cohen, P.
Synergistic activation of stress-activated protein kinase 1/c-Jun N-terminal kinase (SAPK1/JNK) isoforms by mitogen-activated protein kinase kinase 4 (MKK4) and MKK7, 352:145
Fletcher, L. M.
——; Welsh, G. I.; Oatey, P. B.; Tavaré, J. M.
Role for the microtubule cytoskeleton in GLUT4 vesicle trafficking and in the regulation of insulin-stimulated glucose uptake, 352:267
Flintoff, W. F., *See* Sadlish, H.
Flores, A., *See* Ribeiro, J. M.
Florín-Christensen, J., *See* Caramelo, J. J.
Florín-Christensen, M., *See* Caramelo, J. J.
Flynn, G., *See* Rahman, S.
Focher, F., *See* Verri, A.
Fogolari, F., *See* Romagnoli, S.
Fong, C. W.
——; Zhang, Y.; Neo, S. Y.; Lin, S.-C.
Specific induction of RGS16 (regulator of G-protein signalling 16) mRNA by protein kinase C in CEM leukaemia cells is mediated via tumour necrosis factor α in a calcium-sensitive manner, 352:747
Fontaine, T., *See* Mouyna, I.
Forbes, L. V., *See* Reeves, E. P.
Foresti, R., *See* Clark, J. E.
Foretz, M., *See* Azzout-Marniche, D.
Forloni, G., *See* Galbete, J. L.
Fortunato, M., *See* Chen, J.-M.
Foschi, M., *See* Laine, P.; McGinty, A.
Foucault, G.
——; Vacher, M.; Cribier, S.; Arrio-Dupont, M.
Interactions between β-enolase and creatine kinase in the cytosol of skeletal muscle cells, 346:127
Foufelle, F., *See* Azzout-Marniche, D.
Foukas, L. C., *See* Beeton, C. A.
Fowles, L. F.
——; Stacey, K. J.; Marks, D.; Hamilton, J. A.; Hume, D. A.
Regulation of urokinase plasminogen activator gene transcription in the RAW264 murine macrophage cell line by macrophage colony-stimulating factor (CSF-1) is dependent upon the level of cell-surface receptor, 347:313
Fox, J. W., *See* Lizano, S.
Fox, S. R., *See* Johnson, P. E.
——; Hill, L. M.; Rawsthorne, S.; Hills, M. J.
Inhibition of the glucose-6-phosphate transporter in oilseed rape (*Brassica napus* L.) plastids by acyl-CoA thioesters reduces fatty acid synthesis, 352:525
Fradelizi, D., *See* Ferret, P. J.
Franc, S., *See* Yuan, C. M.
Frangione, B., *See* Tokuda, T.
Frank, S.
——; Kämpfer, H.; Podda, M.; Kaufmann, R.; Pfeilschifter, J.
Identification of copper/zinc superoxide dismutase as a nitric oxide-regulated gene in human (HaCaT) keratinocytes: implications for keratinocyte proliferation, 346: 719
——; Kämpfer, H.; Wetzler, C.; Stallmeyer, B.; Pfeilschifter, J.
Large induction of the chemotactic cytokine RANTES during cutaneous wound repair: a regulatory role for nitric oxide in keratinocyte-derived RANTES expression, 347:265
Franke, B., *See* Hackeng, C. M.
Franssen, M. C. F., *See* ten Have, R.
Frears, E. R., *See* Sian, A. K.
Freeland, K.
——; Liu, Y.-Z.; Latchman, D. S.
Distinct signalling pathways mediate the cAMP response element (CRE)-dependent activation of the calcitonin gene-related peptide gene promoter by cAMP and nerve growth factor, 345:233
Frei, B., *See* Carr, A. C.
French, C. E., *See* Walker, E. H.
French, D., *See* Rahman, S.
Frengen, E., *See* Kolpakova, E.
Frenkel, M. J., *See* Elleman, T. C.
Fresno Vara, J. A.
——; Carretero, M. V.; Gerónimo, H.; Ballmer-Hofer, K.; Martín-Pérez, J.
Stimulation of c-Src by prolactin is independent of Jak2, 345:17
Frey, P. A., *See* Chen, D.
Friedrich, B., *See* Dimer, K.-S.
Frisch, H., *See* Englisch, R.
Frischholz, S., *See* Wagner, K.
Fritsch, C., *See* Olsen, J.
Froemming, G., *See* Zorzato, F.
Fröhlich, L. G., *See* Kotsonis, P.
Frohman, M. A., *See* Slaaby, R.
Fromm, H., *See* Lee, S. H.
Frost, M. T.
——; Halliwell, B.; Moore, K. P.
Analysis of free and protein-bound nitrotyrosine in human plasma by a gas chromatography/mass spectrometry method that avoids nitration artifacts, 345:453
Frow, E. K., *See* Grainger, D. J.
Fuertes, G., *See* Brooks, P.
Fujimoto, D., *See* Iijima, K.
Fujita, H.

© 2001 Biochemical Society

——; Katoh, H.; Hasegawa, H.; Yasui, H.; Aoki, J.; Yamaguchi, Y.; Negishi, M.
Molecular decipherment of Rho effector pathways regulating tight-junction permeability, 346:617
Fukami, M. H., *See* Selhelm, F.
Fukasawa, M., *See* Hanada, K.
Fuki, I. V.
——; Meyer, M. E.; Williams, K. J.
Transmembrane and cytoplasmic domains of syndecan mediate a multi-step endocytic pathway involving detergent-insoluble membrane rafts, 351:607
Fuks, B., *See* Harvengt, P.
Fukuda, T., *See* Naito, M.
Fukuma, K., *See* Suh, D.-Y.
Fukuma, N., *See* Kondo, T.
Fukumaki, Y., *See* Chijiwa, T.
Fukushi-Irié, M.
——; Ito, M.; Amaya, Y.; Amizuka, N.; Ozawa, H.; Omura, S.; Ikehara, Y.; Oda, K.
Possible interference between tissue-non-specific alkaline phosphatase with an Arg^{54}→Cys substitution and a counterpart with an Asp^{277}→Ala substitution found in a compound heterozygote associated with severe hypophosphatasia, 348:633
Fukushima, Y., *See* Inukai, K.
Funaki, M., *See* Inukai, K.
Funk, C. D., *See* Zhang, Y.-Y.
Furlong, R. A.
——; Narain, Y.; Rankin, J.; Wyttenbach, A.; Rubinsztein, D. C.
α-Sunuclein overexpression promotes aggregation of mutant huntingtin, 346:577
Fürnsinn, C., *See* Englisch, R.
Fürstenberger, G., *See* Bürger, F.
Furui, T., *See* Fang, X.
Furuyama, T.
——; Nakazawa, T.; Nakano, I.; Mori, N.
Identification of the differential distribution patterns of mRNAs and consensus binding sequences for mouse DAF-16 homologues, 349: 629
Fyfe, P. K., *See* Ridge, J. P.

Gadellaa, M. M., *See* van de Poll, M. L. M.
Gahara, Y., *See* Ohta, S.
Gaill, F., *See* Chamoy, L.
Gaillard, I., *See* Rocchi, S.
Galbete, J. L.
——; Rodriguez-Martin, T.; Peressini, E.; Modena, P.; Bianchi, R.; Forloni, G.
Cholesterol decreases secretion of the secreted form of amyloid precursor protein by interfering with glycosylation in the protein secretory pathway, 348:307
Galbo, H., *See* Langfort, J.
Galeotti, T., *See* Pani, G.
Galili, G., *See* Zhu, X.
Galione, A., *See* Patel, S.
Gallacher, G., *See* Resmini, M.
Gallagher, C. H., *See* Torres, A. M.
Gallagher, I. M., *See* Knott, T. G.
Gallegos, M.-T., *See* Scott, D. J.
Galli, G., *See* De Fabiani, E.
Gamble, J. R., *See* Pitson, S. M.
Gamm, D. M., *See* Collins, S. P.
Ganea, E.
——; Harding, J. J.
α-Crystallin assists the renaturation of glyceraldehyde-3-phosphate dehydrogenase, 345:467
Gangula, R., *See* Pajor, A. M.
Gannon, F., *See* McNair, A.
Gao, B., *See* Liu, J.; Nguyen, V.-A. T.; Shen, X.
Gao, J., *See* Zheng, L.
Garami, E., *See* Ahmed, N.
García-Cánovas, F., *See* Hiner, A. N. P.
García-Carmona, F., *See* Valero, E.
García-Díaz, M., *See* Ribeiro, J. M.
García-Escribano, C., *See* Torrecillas, G.
García-Sáinz, J. A., *See* del Carmen Medina, L.
Gardner, R. C.
——; Assinder, S. J.; Christie, G.; Mason, G. G. F.; Markwell, R.; Wadsworth, H.; McLaughlin, M.; King, R.; Chabot-Fletcher, M. C.; Breton, J. J.; Allsop, D.; Rivett, A. J.
Characterization of peptidyl boronic acid inhibitors of mammalian 20 S and 26 S proteasomes and their inhibition of proteasomes in cultured cells, 346:447
Garlatti, M., *See* Massaad, C.
Garner, C., *See* Jenkins, S. M.
Garner, C. D., *See* Butler, C. S.
Garner-Hamrick, P. A., *See* Powers, E. A.
Garnero, P., *See* Gineyts, E.
Garnotel, R., *See* Monboisse, J.-C.
Garnovskaya, M. N., *See* Mukhin, Y. V.
Garriock, R. J., *See* Kiss, A.
Garry, D. J., *See* Yang, Q.
Gasymov, O. K., *See* Yusifov, T. N.
Gaut, J. P., *See* Hazen, S. L.
Gear, A. R. L., *See* Suttitanamongkol, S.
Gebicki, J. M., *See* Gleseg, S.
Geiser, M., *See* Cèbe, R.
Gelman, M., *See* Toutant, M.
George, A., *See* Ward, R. V.
George, P., *See* Greco, S.
Gerez, L., *See* Nagelkerken, B.
Gerónimo, H., *See* Fresno Vara, J. A.
Gesellchen, F., *See* Thullner, S.
Geyer, R., *See* Wuhrer, M.
Ghaddar, G.
——; Ruchon, A. F.; Carpentier, M.; Marcinkiewicz, M.; Seidah, N. G.; Crine, P.; Desgroseillers, L.; Boileau, G.
Molecular cloning and biochemical characterization of a new mouse testis soluble-zinc-metallopeptidase of the neprilysin family, 347:419
Ghiso, J., *See* Tokuda, T.
Giacobini, M. M. J., *See* Rundlöf, A.-K.
Giakoumaki, E., *See* Paton, M. G.
Giannattosio, M., *See* Romagnoli, S.
Giannoni, E., *See* Paoli, P.
Giardina, B., *See* Corda, M.
Gibbons, G. F., *See* Patel, D. D.
Gibbs, M. D., *See* Sunna, A.
Giddings, S. J., *See* Ritter, D.
Gieseg, S.
——; Duggan, S.; Gebicki, J. M.
Peroxidation of proteins before lipids in U937 cells exposed to peroxyl radicals, 350:215
Gilberger, T.-W., *See* Krause, T.
Gilbert, H. J., *See* Abou Hachem, M.
Gilgès, D.
——; Vinit, M.-A.; Callebaut, I.; Coulombel, L.; Cacheux, V.; Romeo, P.-H.; Vigon, I.
Polydom: a secreted protein with pentraxin, complement control protein, epidermal growth factor and von Willebrand factor A domains, 352:49
Gillery, P., *See* Monboisse, J.-C.
Gillham, H., *See* Urbano, A. M.
Gillot, I., *See* Jehl-Pietri, C.
Gineyts, E.
——; Cloos, P. A. C.; Borel, O.; Grimaud, L.; Delmas, P. D.; Garnero, P.
Racemization and isomerization of type I collagen C-telopeptides in human bone and soft tissues: assessment of tissue turnover, 345: 481
Gingras, D.
——; Lamy, S.; Béliveau, R.
Tyrosine phosphorylation of the vascular endothelial-growth-factor receptor-2 (VEGFR-2) is modulated by Rho proteins, 348:273
Giralt, M., *See* Alvarez, R.
Girault, J.-A., *See* Toutant, M.
Gitan, R. S.
——; Eide, D. J.
Zinc-regulated ubiquitin conjugation signals endocytosis of the yeast ZRT1 zinc transporter, 346:329
Giuriato, S.
——; Bodin, S.; Erneux, C.; Woscholski, R.; Plantavid, M.; Chap, H.; Payrastre, B.
pp66*c-src* associates with the SH2-containing inositol-5-phosphatase SHIP1 and is involved in its tyrosine phosphorylation downstream of αIIbβ3 integrin in human platelets, 348:107
Gjinovci, A., *See* Iynedjian, P. B.
Glaser, E., *See* Ståhl, A.
Glasgow, B. J., *See* Yusifov, T. N.
Glineur, C.
——; Davioud-Charvet, E.; Vandenbunder, B.
The conserved redox-sensitive cysteine residue of the DNA-binding region in the *c*-Rel protein is involved in the regulation of the phosphorylation of the protein, 352: 583
Glossmann, H., *See* Huber, I.
Godyna, S., *See* Vanguri, V. K.
Goedert, M., *See* Fleming, Y.
Goldenberg, H., *See* Lagguer, H.
Golding, J. C., *See* Chen, S. C. A.
Golfieri, V., *See* De Fabiani, E.
Gomez, E., *See* Chiariello, M.
Gómez Casati, D. F.
——; Aon, M. A.; Iglesias, A. A.
Kinetic and structural analysis of the ultrasensitive behaviour of cyanobacterial ADP-glucose pyrophosphorylase, 350:139
Gómez del Pulgar, T.
——; Velasco, G.; Guzmán, M.
The CB_1 cannabinoid receptor is coupled to the activation of protein kinase B/Akt, 347:369
Gómez-Fabre, P. M.
——; Aledo, J. C.; del Castillo-Olivares, A.; Alonso, F. J.; Núñez de Castro, I.; Campos, J. A.; Márquez, J.
Molecular cloning, sequencing and expression studies of the human breast cancer cell glutaminase, 345: 365
Gomis, R. R.
——; Ferrer, J. C.; Guinovart, J. J.
Shared control of hepatic glycogen synthesis by glycogen synthase and glucokinase, 351:811
Gonçalves, O.
——; Dintinger, T.; Lebreton, J.; Blanchard, D.; Tellier, C.
Mechanism of an antibody-catalysed allylic isomerization, 346:691
Gong, X., *See* Yan, X.
Gonzales, N., *See* Wen, Y.
González-Pacanowska, D., *See* Camacho, A.; Montalvetti, A.
González-Segura, L., *See* Velasco-García, R.
Goodfellow, G. H.
——; Dupret, J.-M.; Grant, D. M.

© 2001 Biochemical Society

Identification of amino acids imparting acceptor substrate selectivity to human arylamine acetyltransferases NAT1 and NAT2, 348:159
Goppelt-Struebe, M.
——; Fickel, S.; Reiser, C. O. A.
The platelet-derived-growth-factor receptor, not the epidermal-growth-factor receptor, is used by lysophosphatidic acid to activate p42/44 mitogen-activated protein kinase and to induce prostaglandin G/H synthase-2 in mesangial cells, 345:217
Gordon, E. H. J.
——; Pike, A. D.; Hill, A. E.; Cuthbertson, P. M.; Chapman, S. K.; Reid, G. A.
Identification and characterization of a novel cytochrome c_3 from *shewanella frigidimarina* that is involved in Fe(III) respiration, 349: 153
Gore, M. G., *See* Cunningham, O.
Gorren, A. C. F., *See* Werner, E. R.
——; Schrammel, A.; Riethmüller, C.; Schmidt, K.; Koesling, D.; Werner, E. R.; Mayer, B.
Nitric xoide-induced autoinhibition of neuronal nitric oxide synthase in the presence of the autoxidation-resistant pteridine 5-methyltetrahydrobiopterin, 347:475
Gorter, G., *See* Hackeng, C. M.
Gough, K. H., *See* Grusovin, J.
Gould, G. W., *See* Shewan, A. M.
Gould, S. J., *See* Dodt, G.
Goyal, A.
——; Batra, J. K.
Inclusion of a furin-sensitive spacer enhances the cytotoxicity of ribotoxin restrictocin containing recombinant single-chain immunotoxins, 345:247
Grabowski, G. A., *See* Sun, Y.
Grace, A. A., *See* Kirschenlohr, H. L.; Smith, G. A.
Graf, D., *See* Kurz, A. K.
Graf, J., *See* Englisch, R.
Graham, K., *See* Nash, P.
Grahn, B., *See* Nilsson, J.
Grainger, D. J.
——; Frow, E. K.
Thrombospondin 1 does not activate transforming growth factor β1 in a chemically defined system or in smooth-muscle-cell cultures, 350:291
Grammatyka, S., *See* Zapun, A.
Graness, A.
——; Hanke, S.; Boehmer, F. D.; Presek, P.; Liebmann, C.
Protein-tyrosine-phosphatase-mediated epidermal growth factor (EGF) receptor transinactivation and EGF receptor-independent stimulation of mitogen-activated protein kinase by bradykinin in A431 cells, 347:441
Granner, D. K., *See* Herzog, B.; Rucktäschel, A. K.
Grant, D. M., *See* Goodfellow, G. H.
Graumann, K.
——; Jungbauer, A.
Quantitative assessment of complex formation of nuclear-receptor accessory proteins, 345:627
Graversen, J. H., *See* Lorentsen, R. H.
Graves, D., *See* Rosado, J. A.
Gray, A., *See* Fleming, I. N.; Leslie, N. R.; Peyrollier, K.
Gray, S. R., *See* Ihrke, G.
Grechkin, A. N.
——; Mukhtarova, L. S.; Hamberg, M.
The lipoxygenase pathway in tulip *(Tulipa gesneriana)*: detection of the ketol route, 352:501
Greco, S.
——; Hugueny, I.; George, P.; Perrin, P.; Louisot, P.; Biol, M.-C.
Influence of spermine on intestinal maturation of the glycoprotein glycosylation process in neonatal rats, 345:69
Green, C. J., *See* Clark, J. E.
Greenberg, M. L., *See* Koshkin, V.
Greene, E. L., *See* Mukhin, Y. V.
Gretskaya, N. M., *See* Bisogno, T.
Grewal, J. S., *See* Mukhin, Y. V.
Gribbon, P.
——; Heng, B. C.; Hardingham, T. E.
The analysis of intermolecular interactions in concentrated hayaluronan solutions suggest no evidence for chain-chain association, 350:329
Grießler, R.
——; D'Auria, S.; Schinzel, R.; Tanfani, F.; Nidetzky, B.
Mechanism of thermal denaturation of maltodextrin phosphorylase from *Escherichia coli*, 346:255
Griffin, J. H., *See* Hackeng, T. M.
Grimaldi, P. A., *See* Jehl-Pietri, C.
Grimaud, L., *See* Gineyts, E.
Gripentrog, J. M.
——; Jesaitis, A. J.; Miettinen, H. M.
A single amino acid substitution (N297A) in the conserved NPXXY sequence of the human *N*-formyl peptide receptor results in inhibition of desensitization and endocytosis, and a dose-dependent shift in p42/44 mitogen-activated protein kinase activation and chemotaxis, 352:399
Gritli-Linde, A., *See* Nilsson, J.
Grochulski, P., *See* Dutt, P.
Grogan, A., *See* Reeves, E. P.
Groigno, L., *See* Suprynowicz, F. A.
Groner, Y., *See* Urbano, A. M.
Groschner, K., *See* Hohaus, A.
Gross, D. J., *See* Holbrook, M. R.
Gross, R. W., *See* Han, X.
Grünweller, A., *See* Kruse, C.
Grusovin, J.
——; Stoichevska, V.; Gough, K. H.; Nunan, K.; Ward, C. W.; Macaulay, S. L.
Definition of a minimal munc18c domain that interacts with syntaxin 4, 350:741
Gu, J., *See* Wen, Y.
Gu, M., *See* Sliva, D.
Gu, Y.-H., *See* Dai, L.
Guarnieri, C., *See* Stefanelli, C.
Gubby, S. E., *See* Wong, E. Y. M.
Gubenšek, F., *See* Prijatelj, P.
Güclü, J., *See* Lurin, C.
Gudermann, T., *See* Hofmann, T.
Guerardel, Y.
——; Kol, O.; Maes, E.; Lefebvre, T.; Boilly, B.; Davril, M.; Strecker, G.
O-glycan variability of egg-jelly mucins from *Xenopus laevis*: characterization of four phenotypes that differ by the terminal glycosylation of their mucins, 352: 449
Guerrini, R., *See* Zorzato, F.
Guétard, D., *See* Bahbouhi, B.
Guialis, A., *See* Kafasla, P.
Guichard, C., *See* Azzout-Marniche, D.
Guinovart, J. J., *See* Gomis, R. R.
Gujer, R., *See* Leuthäuser, K.
Gukovsky, I., *See* Fitzsimmons, T. J.
Gul, S., *See* Noble, M. A.; Resmini, M.
Gunaratne, R. S.
——; Sajid, M.; Ling, I. T.; Tripathi, R.; Pachebat, J. A.; Holder, A. A.
Characterizaztion of *N*-myristoyltransferase from *Plasmodium falciparum*, 348:459
Guntaka, R. V., *See* Swamynathan, S. K.
Guo, N., *See* Finlin, B. S.; Yan, X.
Guo, W.
——; Choi, J.-K.; Kirkland, J. L.; Corkey, B. E.; Hamilton, J. A.
Esterification of free fatty acids in adipocytes: a comparison between octanoate and oleate, 349:463
Guppy, M., *See* Abas, L.
Guss, B., *See* Tung, H.-s.
Gustafsson, L., *See* Bonini, B. M.
Gutiérrez, J. M., *See* Lizano, S.
Gutkind, J. S., *See* Chiariello, M.
Guzmán, M., *See* Gómez del Pulgar, T.
Gyurko, C., *See* Liu, B.

Ha, K.-S., *See* Woo, C.-H.
Haagsman, H. P., *See* Danlois, F.
Haan, C.
——; Hermanns, H. M.; Heinrich, P. C.; Behrmann, I.
A single amino acid substitution (Trp^{666}→Ala) in the interbox 1/2 region of the interleukin-6 signal transducer gp130 abrogates binding of JAK1, and dominantly impairs signal transduction, 349:261
Haan, S.
——; Kortylewski, M.; Behrmann, I.; Müller-Esterl, W.; Heinrich, P. C.; Schaper, F.
Cytoplasmic STAT proteins associate prior to activation, 345:417
Haase, H., *See* Hohaus, A.
Habisch, H.-J., *See* Werner, E. R.
Habuchi, H., *See* Rong, J.
Hackeng, C. M.
——; Franke, B.; Relou, I. A. M.; Gorter, G.; Bos, J. L.; van Rijn, H. J. M.; Akkerman, J.-W. N.
Low-density lipoprotein activates the smallGTPases Rap1 and RAI in human platelets, 349:231
Hackeng, T. M.
——; Yegneswaran, S.; Johnson, A. E.; Griffin, J. H.
Conformational changes in activated protein C caused by binding of the first epidermal growth factor-like module of protein S, 349:757
Haeggström, J. Z., *See* Andberg, M.
Haenisch, C., *See* Meergans, T.
Hafiz, F., *See* Brown, D. R.
Hagenbuch, B.
——; Adler, I.-D.; Schmid, T. E.
Molecular cloning and functional characterization of the mouse organic-anion-transporting polypeptide 1 (Oatp1) and mapping of the gene to chromosome X, 345: 115
Haghighi, S., *See* Veress, I.
Hagi, A., *See* Wang, L.
Hagner-McWhirter, A.
——; Lindahl, U.; Li, J.-p.
Biosynthesis of heparin/heparan sulphate: mechanism of epimerization of glucuronyl C-5, 347:69
Hahn, D.
——; Illisson, R.; Metspalu, A.; Sterchi, E. E.
Human *N*-benzoyl-L-tyrosyl-*p*-aminobenzoic acid hydrolase (human meprin): genomic structure of the α and β subunits, 346:83
Haines, B. P., *See* Jolliffe, C. N.
Hains, P. G.
——; Broady, K. W.
Purification and inhibitory profile of phospholipase A_2 inhibitors from Australian elapid sera, 346:139
Hajduch, E., *See* Peyrollier, K.
Hakuno, F., *See* Ariga, M.

© 2001 Biochemical Society

Halestrap, A. P., *See* Doran, E.; Owen, M. R.
Halet, G., *See* Boittin, F.-X.
Hall, A., *See* Bishop, A. L.
Hallberg, B., *See* Henriksson, M. L.
Hallén, K., *See* Orsi, A.
Halliwell, B., *See* Frost, M. T.
Haltia, M., *See* Baumann, M. H.
Haltiwanger, B. M.
——; Karpinich, N. O.; Taraschi, T. F.
Characterization of class II apurinic/apyrimidinic endonuclease activities in the human malaria parasite, *Plasmodium falciparum*, 345:85
Halvorsen, B.
——; Staff, A. C.; Ligaarden, S.; Prydz, K.; Kolset, S. O.
Lithocholic acid and sulphated lithocholic acid differ in the ability to promote matrix metalloproteinase secretion in the human colon cancer cell line Caco-2, 349:189
Hamajima, F., *See* Hasegawa, T.
Hamberg, M., *See* Grechkin, A. N.
Hamilton, C.
——; Saggerson, E. D.
Malonyl-CoA metabolism in cardiac myocytes, 350:61
Hamilton, J. A., *See* Fowles, L. F.; Guo, W.
Hammacher, A.
——; Wijdenes, J.; Hilton, D. J.; Nicola, N. A.; Simpson, R. J.; Layton, J. E.
Ligand-specific utilization of the extracellular membrane-proximal region of the gp130-related signalling receptors, 345:25
Hammarberg, T., *See* Zhang, Y.-Y.
Hammond, J. R., *See* Kiss, A.
Han, C.-Y.
——; Park, S.-Y.; Pak, Y. K.
Role of endocytosis in the transactivation of nuclear factor-κB by oxidized low-density lipoprotein, 350:928
Han, I.
——; Oh, E.-S.; Kudlow, J. E.
Responsiveness of the state of O-linked *N*-acetylglucosamine modification of nuclear pore protein p62 to the extracellular glucose concentration, 350:109
Han, J., *See* McGinty, A.
Han, M. Y., *See* Yoo, J.
Han, S.-J., *See* Lee, W.-J.
Han, S. K., *See* Kim, K. P.
Han, S. Y.
——; Park, D. Y.; Park, S. D.; Hong, S. H.
Identification of Rab6 as an *N*-ethylmaleimide-sensitive fusion protein-binding protein, 352:165
Han, X.
——; Abendschein, D. R.; Kelley, J. G.; Gross, R. W.
Diabetes-induced changes in specific lipid molecular species in rat myocardium, 352:79
Hanada, K.
——; Mitamura, T.; Fukasawa, M.; Magistrado, P. A.; Horii, T.; Nishijima, M.
Neutral sphingomyelinase activity dependent on Mg^{2+} and anionic phospholipids in the intraerythrocytic malaria parasite *Plasmodium falciparum*, 346:671
Hancock, R. E. W., *See* Jelokhani-Niaraki, M.
Hanke, S., *See* Graness, A.
Hanlon, M. R.
——; Begum, R. R.; Newbold, R. J.; Whitford, D.; Wallace, B. A.
In vitro membrane-inserted conformation of the cytochrome b_5 tail, 352:117
Hannun, Y. A., *See* van Tiel, C. M.
Hansson, G. C., *See* Karlsson, N. G.
Hara, A., *See* Ohta, T.
Hara, J., *See* Higuchi, K.
Harbon, S., *See* Le Stunff, H.
Hardie, D. G., *See* Cheung, P. C. F.
Harding, J. J., *See* Ganea, E.
Harding, S. E., *See* Deacon, M. P.
Hardingham, T. E., *See* Gribbon, P.
Hardlei, T., *See* Lohse, A.
Harduin-Lepers, A.
——; Stokes, D. C.; Steelant, W. F. A.; Samyn-Petit, B.; Krzewinski-Recchi, M.-A.; Vallejo-Ruiz, V.; Zanetta, J.-P.; Augé, C.; Delannoy, P.
Cloning, expression and gene organization of a human Neu5Acα2–3Galβ1–3GalNAc α2,6-sialytransferase: hST6GalNAc IV, 352:37
Harlow, J., *See* Ellis, S. W.
Harmer, A. R., *See* Smith, P. M.
Haro, D., *See* Mascaró, C.
Harper, B. D.
——; Beckerle, M. C.; Pomilès, P.
Fine mapping of the α-actinin binding site within cysteine-rich protein, 350:269
Harrington, M. A., *See* Nagarajan, R. P.
Harris, E. D., *See* Reddy, M. C. M.
Harris, M. B., *See* Ju, H.
Harris, R. A., *See* Sugden, M. C.
Hart, S., *See* Bruce, L. J.
Hartmann, R. K., *See* Kruse, C.
Hartshorn, K. L.
——; White, M. R.; Voelker, D. R.; Coburn, J.; Zaner, K.; Crouch, E. C.
Mechanism of binding of surfactant protein D to influenza A viruses: importance of binding to haemagglutinin to antiviral activity, 351:449
Harvengt, P.
——; Vlerick, A.; Fuks, B.; Wattiez, R.; Ruysschaert, J.-M.; Homble, F.
Lentil seed aquaporins form a hetero-oligomer which is phosphorylated by a Mg^{2+}-dependent and Ca^{2+}-regulated kinase, 352:183
Harvey, K. F., *See* Jolliffe, C. N.
Harwood, C. R., *See* Stephenson, K.
Harwood, J. L., *See* Jones, A. L.
Hascilowicz, T., *See* Saito, T.
Hasegawa, H., *See* Fujita, H.
Hasegawa, T.
——; Takeuchi, A.; Miyaishi, O.; Xiao, H.; Mao, J.; Isobe, K.-i.
PTRF (polymerase I and transcript-release factor) is tissue-specific and interacts with the BGCOL1 (binding factor of a type-I collagen promoter) zinc-finger transcription factor which binds to the two mouse type-I collagen gene promoters, 347:55
——; Xiao, H.; Hamajima, F.; Isobe, K.-i.
Interaction between DNA-damage protein GADD34 and a new member of the Hsp40 family of heat shock proteins that is induced by a DNA-damaging reagent, 352:795
Haseman, J., *See* Mayo, K. H.
Hashii, M., *See* Higashida, H.
——; Minabe, Y.; Higashida, H.
cADP-ribose potentiates cytosolic Ca^{2+} elevation and Ca^{2+} entry via L-type voltage-activated Ca^{2+} channels in NG108–15 neuronal cells, 345:207
Hasilik, A., *See* Melcher, R.
Hassett, R.
——; Dix, D. R.; Eide, D. J.; Kosman, D. J.
The Fe(II) permease Fet4p functions as a low affinity copper transporter and supports normal copper trafficking in *Saccharomyces cerevisiae*, 351:477
Hastie, C. J.
——; Carnegie, G. K.; Morrice, N.; Cohen, P. T. W.
A novel 50 kDa protein forms complexes with protein phosphatase 4 and is located at centrosomal microtubule organizing centres, 347:845
Haswell, S. J., *See* Brown, D. R.
Hatakeyama, K., *See* Meininger, C. J.
Hatch, G. M., *See* Mutter, T.
Hattori, S., *See* Chijiwa, T.
Hatzack, F., *See* Kerovuo, J.
Häussinger, D., *See* Dombrowski, F.; Kurz, A. K.
Havekes, L. M., *See* Tacken, P. J.
Hawkins, A. R., *See* Levett, L. J.
Hawkins, J., *See* Ward, R. V.
Hawkins, P. T., *See* Wang, L.
Hayakari, M., *See* Kumano, T.
Hayashi, H., *See* Wang, L.
Hayashi, K., *See* Shibuya, H.; Zhang, Z.-Z.
Hayashi, N., *See* Matsushima, N.
Hayashi, S.-i., *See* Saito, T.
Hayek, S. M.
——; Zhu, X.; Bhat, M. B.; Zhao, J.; Takeshima, H.; Valdivia, H. H.; Ma, J.
Characterization of a calcium-regulation domain of the skeletal-muscle ryanodine receptor, 351:57
Hayes, J. D., *See* Kelly, V. P.
Hayhurst, G. P., *See* Ellis, S. W.
Hazen, S. L.
——; Gaut, J. P.; Crowley, J. R.; Hsu, F. F.; Heinecke, J. W.
Elevated levels of protein-bound *p*-hydroxyphenylacetaldehyde, an amino-acid-derived aldehyde generated by myeloperoxidase, are present in human fatty streaks, intermediate lesions and advanced atherosclerotic lesions, 352:693
He, H., *See* Zheng, L.
He, Q.-Y.
——; Mason, A. B.; Ngyuen, V.; MacGillivray, R. T. A.; Woodworth, R. C.
The chloride effect is related to anion binding in determining the rate of iron release from the human transferrin N-lobe, 350:909
He, R.-Q., *See* Chen, Y.-H.
He, S., *See* Stoll, D.
He, W., *See* Powers, E. A.
He, X.-Y.
——; Yang, Y.-Z.; Schulz, H.; Yang, S.-Y.
Intrinsic alcohol dehydrogenase and hydroxysteroid dehydrogenase activities of human mitochondrial short-chain L-3-hydroxyacyl-CoA dehydrogenase, 345:139
Heads, R. J., *See* Punn, A.
Heby, O., *See* Nilsson, J.
Hecht, H.-J., *See* Witt, S.
Heck, S., *See* Rojo-Niersbach, E.
Hegardt, F. G., *See* Eggers, A.; Mascaró, C.; Morillas, M.
Heger, J., *See* Nash, P.
Heijnen, J. J., *See* Somsen, O. J. G.
Heiman, T., *See* Chitambar, C. R.
Heinecke, J. W., *See* Hazen, S. L.
Heinrich, P. C., *See* Haan, C.; Haan, S.
Heinrich, R., *See* Wolf, J.
Heinz, S., *See* Krause, S. W.
Heipieper, H. J., *See* Favaloro, B.

© 2001 Biochemical Society

Heldin, C.-H., *See* Paukku, K.
Heldin, P., *See* Jacobson, A.
Helliwell, P. A., *See* Kellett, G. L.
——; Richardson, M.; Affleck, J.; Kellett, G. L.
Regulation of GLUT5, GLUT2 and intestinal brush-border fructose absorption by the extracellular signal-regulated kinase, p38 mitogen-activated kinase and phosphatidylinositol 3-kinase intracellular signalling pathways: implications for adaptation to diabetes, 350:163
Stimulation of fructose transport across the intestinal brush-border membrane by PMA is mediated by GLUT2 and dynamically regulated by protein kinase C, 350:149
Hellman, U., *See* Tung, H.-s.
Helps, N. R.
——; Luo, X.; Barker, H. M.; Chen, P. T. W.
NIMA-released kinase 2 (Nek2), a cell-cycle-regulated protein kinase localized to centrosomes, is complexed to protein phosphatase 1, 349:509
Hemingway, J., *See* Paton, M. G.
Hemler, M. E., *See* Yauch, R. L.
Hempel, M., *See* Lischke, A.
Hendil, K. B., *See* Brooks, P.
Heng, B. C., *See* Gribbon, P.
Henriksson, M. L.
——; Rosqvist, R.; Telepnev, M.; Wolf-Watz, H.; Hallberg, B.
Ras effector pathway activation by epidermal growth factor is inhibited *in vivo* by exoenzyme S ADP-ribosylation of Ras, 347:217
——; Trollér, U.; Hallberg, B.
14–3–3 proteins are required for the inhibition of Ras by exoenzyme S, 349:697
Henrissat, B., *See* Nahoum, V.; Woodman, Z. L.
Herbert, D., *See* Jones, A. L.
Héricourt, F.
——; Blanc, S.; Redeker, V.; Jupin, I.
Evidence for phosphorylation and ubiquitinylation of the turnip yellow mosaic virus RNA-dependent RNA polymerase domain expressed in a baculovirus-insect cell system, 349: 417
Hermanns, H. M., *See* Haan, C.
Herrera, E., *See* Klatt, P.
Herreros, J.
——; Lalli, G.; Schiavo, G.
C-terminal half of tetanus toxin fragment C is sufficient for neuronal binding and interaction with a putative protein receptor, 347:199
Herzog, A., *See* Huber, I.
Herzog, B.
——; Waltner-Law, M.; Scott, D. K.; Eschrich, K.; Granner, D. K.
Characterization of the human liver fructose-1,6-bisphosphatase gene promoter, 351:385
Hesketh, R., *See* Öklü, R.
Hetru, C.
——; Letellier, L.; Oren, Z.; Hoffmann, J. A.; Shai, Y.
Androctonin, a hydrophilic disulphide-bridged non-haemolytic anti-microbial peptide: a plausible mode of action, 345:653
Hew, C. L., *See* Lin, W.-w.
Hewish, D. R., *See* Elleman, T. C.
Higashida, C., *See* Higashida, H.
Higashida, H., *See* Hashii, M.
——; Zhang, J.-S.; Hashii, M.; Shintaku, M.; Higashida, C.; Takeda, Y.
Angiotensin II stimulates cyclic ADP-ribose formation in neonatal rat cardiac myocytes, 352:197
Higuchi, K.
——; Hara, J.; Okamoto, R.; Kawashima, M.; Imokawa, G.
The skin of atopic dermatitis patients contains a novel enzyme, glucosylceramide sphingomyelin deacylase, which cleaves the N-acyl linkage of sphingomyelin and glucosylceramide, 350:747
Hildalgo-Zarco, F., *See* Camacho, A.
Hildebrandt, A.-K., *See* Meergans, T.
Hill, A. E., *See* Gordon, E. H. J.
Hill, J. E.
——; Scott, D. A.; Luo, S.; Docampo, R.
Cloning and functional expression of a gene encoding a vacuolar-type proton-translocating pyrophosphatase from *Trypanosoma cruzi*, 351:281
Hill, L. M., *See* Fox, S. R.
Hill, R. M.
——; Parmar, P. K.; Coates, L. C.; Mezey, E.; Pearson, J. F.; Birch, N. P.
Neuroserpin is expressed in the pituitary and adrenal glands and induces the extension of neurite-like processes in AtT-20 cells, 345:595
Hillebrand, A., *See* Melcher, R.
Hilley, J. D., *See* Sanderson, S. J.; Sharma, D. K.
Hills, M. J., *See* Fox, S. R.; Johnson, P. E.
Hilson, W., *See* Zhang, S.
Hilton, D. J., *See* Hammacher, A.
Hinchliffe, K. A., *See* Ciruela, A.
Hinek, A., *See* Zhang, S.
Hiner, A. N. P.
——; Rodríguez-López, J. N.; Arnao, M. B.; Lloyd Raven, E.; García-Cánovas, F.; Acosta, M.
Kinetic study of the inactivation of ascorbate peroxidase by hydrogen peroxide, 348:321
Hirabayashi, T., *See* Zhao, L.-X.
Hiraga, A.
——; Tamura, S.
Protein phosphatase 2A is associated in an inactive state with microtubules through 2A1-specific interaction with tubulin, 346:433
Hiraishi, S., *See* Hori, S.
Hiraoka, B. Y.
——; Yamakura, F.; Sugio, S.; Nakayama, K.
A change of the metal-specific activity of a cambialistic superoxide dismutase from *Porphyromonas gingivalis* by a double mutation of Gln-70 to Gly and Ala-142 to Gln, 345:345
Hirata, M., *See* Takeuchi, H.
Hirata, Y., *See* Horie, S.
Hiratsuka, A.
——; Hirose, K.; Saito, H.; Watabe, T.
4-Hydroxy-2*(E)*-nonenal enantiomers: *(S)*-selective inactivation of glyceraldehyde-3-phosphate dehydrogenase and detoxification by rat glutathione S-transferase A4–4, 349:729
Hirose, K., *See* Hiratsuka, A.
Hirsch-Ernst, K. I.
——; Physiological oxygen tensions modulate expression of the *mdr1b* multidrug-resistance gene in primary rat hepatocyte cultures, 350:443
Hisabori, T., *See* Konno, H.
Ho, T.-Y.
——; Wu, S.-L.; Hsiang, C.-H.; Chang, T.-J.; Hsiang, C.-Y.
Identification of a DNA-binding domain and an active-site residue of pseudorabies virus DNase, 346:441
Hodel, A.
——; Edwardson, J. M.
Targeting of the zymogen-granule protein syncollin in AR42J and AtT-20 cells, 350:637
Hodges, R. S., *See* Jelokhani-Niaraki, M.
Hodgkinson, C., *See* Nash, P.
Hodny, Z., *See* Luciakova, K.
——; Li, R.; Barath, P.; Nelson, B. D.
Sp1 and chromatin environmental are important contributors to the formation of repressive chromatin structures on the transfected human adenine nucleotide translocase-2 promoter, 346:93
Hodson, J. N., *See* Williams, J. P.
Hoeben, M. A., *See* Somsen, O. J. G.
Hoeffler, J.-F., *See* Charon, L.
Hoek, J. B., *See* Kholodenko, B. N.; Marcinkeviciute, A.
Hoffmann, J. A., *See* Hetru, C.
Hoffmann, J. W., *See* Ritter, D.
Hofker, M. H., *See* Tacken, P. J.
Hofmann, F., *See* Hohaus, A.
Hofmann, K., *See* Koch, H.
Hofmann, T.
——; Schaefer, M.; Schultz, G.; Gudermann, T.
Cloning, expression and subcellular localization of two novel splice variants of mouse transient receptor potential channel 2, 351:115
Hogg, N., *See* Stanley, P.
Hoggett, J. G., *See* Scott, D. J.
Hohaus, A.
——; Poteser, M.; Romainin, C.; Klugbauer, N.; Hofmann, F.; Morano, I.; Haase, H.; Groschner, K.
Modulation of the smooth-muscle L-type Ca^{2+} channel $\alpha 1$ subunit ($\alpha 1C$-b) by the β_2a subunit: a peptide which inhibits binding of β to the I-II linker of $\alpha 1$ induces functional uncoupling, 348:657
Holbrook, M. R.
——; Slakey, L. L.; Gross, D. J.
Diabetes-induced changes in specific lipid molecular species in rat myocardium, 352:79
Holbrook, N. J., *See* Klotz, L.-O.
Holder, A. A., *See* Gunaratne, R. S.
Holeton, D., *See* Tucker, A. L.
Hollås, H., *See* Vedeler, A.
Holm, C., *See* Belkner, J.; Langfort, J.
Holman, G. D., *See* Pryor, P. R.
Holmsen, H., *See* Selhelm, F.
Holness, M. J., *See* Sugden, M. C.
——; Langdown, M. L.; Sugden, M. C.
Early-life programming of susceptibility to dysregulation of glucose metabolism and the development of Type 2 diabetes mellitus, 349:657
Holst, O., *See* Abou Hachem, M.
Holthuizen, J., *See* Nagelkerken, B.
Holtzman, M. J., *See* Shen, X.
Holzhütter, H.-G., *See* Belkner, J.
Homble, F., *See* Harvengt, P.
Hong, F., *See* Nguyen, V.-A. T.
Hong, J.-H., *See* Lee, A. H.
Hong, M., *See* Kim, K. P.
Hong, S. H., *See* Han, S. Y.
Honkakoski, P.
——; Negishi, M.
Regulation of cytochrome P450 *(CYP)* genes by nuclear receptors, 347:321
Hooiveld, G. J. E. J., *See* Renes, J.
Hooper, N. M., *See* Woodman, Z. L.
Hopkins, T. A., *See* Dyck, J. R. B.
Horak, D., *See* Meergans, T.
Horejsi, R., *See* Kotsonis, P.

© 2001 Biochemical Society

Horie, S.
——; Hiraishi, S.; Hirata, Y.; Kazama, M.; Matsuda, J.
Oxidized low-density lipoprotein impairs the anti-coagulant function of tissue-factor-pathway inhibitor through oxidative modification by its high association and accelerated degradation in cultured human endothelial cells, 352:277
Horii, T., *See* Hanada, K.
Horiuchi, S., *See* Matsumoto, K.
Hospital, V.
——; Chesneau, V.; Balogh, A.; Joulie, C.; Seidah, N. G.; Cohen, P.; Prat, A.
N-arginine dibasic convertase (nardilysis) isoforms are soluble dibasic-specific metalloendopeptidases that localize in the cytoplasm and at the cell surface, 349:587
Hosseinpour, F., *See* Postlind, H.
Hota, S., *See* Nash, P.
Houslay, M. D., *See* MacKenzie, S. J.
Houstek, J., *See* Andersson, U.
Howard, L.
——; Maciewicz, R. A.; Blobel, C. P.
Cloning and characterization of ADAM28: evidence for autocatalytic pro-domain removal and for cell surface localization of mature ADAM28, 348:21
Howard, M., *See* Sheehan, J. K.
Howlett, D. R., *See* Ward, R. V.
Hoyne, P. A., *See* Elleman, T. C.
Hsiang, C.-H., *See* Ho, T.-Y.
Hsiang, C.-Y., *See* Ho, T.-Y.
Hsu, C.-T., *See* Chou, H.-K.
Hsu, F. F., *See* Hazen, S. L.
Huang, J.-S.
——; She, Q.-B.; Crilly, K. S.; Kiss, Z.
Ethanol, Zn^{2+} and insulin interact as progression factors to enhance DNA synthesis synergistically in the presence of Ca^{2+} and other cell cycle initiators in fibroblasts, 346:241
Huang, L., *See* Wang, L.
Huang, Y.-S., *See* Leonard, A. E.
Huang, Z. Z., *See* Zeng, Z.
Huber, I.
——; Wappl, E.; Herzog, A.; Mitterdorfer, J.; Glossmann, H.; Langer, T.; Striessnig, J.
Conserved Ca^{2+}-antagonist-binding properties and putative folding structure of a recombinant high-affinity dihydropyridine-binding domain, 347:829
Huckerby, T. N., *See* Lauder, R. M.
Hue, L., *See* Deprez, J.
Hughes, C. E., *See* Rees, S. G.
Hughes, W. E.
——; Cooke, F. T.; Parker, P. J.
Sac phosphatase domain proteins, 350: 337
Hugueny, I., *See* Greco, S.
Huh, N.-h., *See* Nakajima, A.
Hulkko, S. M.
——; Wakui, H.; Zilliacus, J.
The pro-apoptotic protein death-associated protein 3 (DAP3) interacts with the glucocorticoid receptor and affects the receptor function, 349:885
Hume, D. A., *See* Fowles, L. F.
Humphries, M. J., *See* Tuckwell, D. S.
Hundal, H. S., *See* Peyrollier, K.
Hung, C.-F., *See* Penning, T. M.
Hunter, C. N., *See* Jensen, P. E.
Hupp, T. R.
——; Lane, D. P.; Ball, K. L.
Strategies for manipulating the p53 pathway in the treatment of human cancer, 352:1
Hur, M.-W., *See* Lee, W.-J.
Hurtado, R., *See* Montalvetti, A.
Husmann, M.
——; Dragneva, Y.; Romahn, E.; Jehnichen, P.
Nuclear receptors modulate the interaction of Sp1 and GC-rich DNA via ternary complex formation, 352:763
Hussain, F., *See* Rahman, S.
Hussain, R., *See* Sian, A. K.
Husson, A., *See* Olivier, E.
Hutter, D.
——; Chen, P.; Barnes, J.; Liu, Y.
Catalytic activation of mitogen-activated protein (MAP) kinase phosphatase-1 by binding to p38 MAP kinase: critical role of the p38 C-terminal domain in its negative regulation, 352:155
Huttner, W. B., *See* Blázquez, M.
Hwaihwanje, I., *See* Bruce, L. J.
Hyde, R., *See* Peyrollier, K.
Hyde, R. J., *See* Parker, M. D.
Hyun, Y.-L.
——; Lew, D. B.; Park, S. H.; Kim, C.-W.; Paik, W. K.; Kim, S.
Enzymic methylation of arginyl residues in -Gly-Arg-Gly- peptides, 348:573

Ichikawa, R., *See* Kashiba, M.
Ichishima, E., *See* Nakamura, M.
Igarashi, K., *See* Sakata, K.
Iglesias, A. A., *See* Gómez Casati, D. F.
Iglesias, R., *See* Alvarez, R.
Ihlemann, J., *See* Langfort, J.
Ihrke, G.
——; Gray, S. R.; Luzio, J. P.
Endolyn is a mucin-like type I membrane protein targeted to lysosomes by its cytoplasmic tail, 345:287
Iida, A., *See* Mizushina, Y.
Iida, S.-i.
——; Takeuchi, H.; Kato, K.; Yamamoto, K.; Irimura, T.
Order and maximum incorporation of *N*-acetyl-D-galactosamine into threonine residues of MUC2 core peptide with microsome fraction of human-colon-carcinoma LS174T cells, 347:535
Iijima, K.
——; Murata, M.; Takahara, H.; Irie, S.; Fujimoto, D.
Identification of N^{ω}-carboxymethylarginine as a novel acid-labile advanced glycation end product in collagen, 347:23
Ikeda, T., *See* Iswantini, D.
Ikehara, Y., *See* Fukushi-Irié, M.
Ilari, A., *See* Yang, X.
Iles, R. A., *See* Burns, S. P.
Illisson, R., *See* Hahn, D.
Imagawa, M., *See* Matsumoto, M.
Imai, H., *See* Nomura, K.
Imaizumi, Y., *See* Yamada, A.
Imakawa, K., *See* Kuraishi, T.
Imokawa, G., *See* Higuchi, K.
Imperial, V., *See* Williams, J. P.
Inagaki, N., *See* Zhao, L.-X.
Inayama, T., *See* Kashiba, M.
Inestrosa, N. C., *See* Deprez, P.
Ingram, S. W.
——; Barnes, L. D.
Disruption and overexpression of the *Schizosaccharomyces pombe aph1* gene and the effects on intracellular diadenosine 5′,‴-P^1,P^4-tetraphosphate (Ap_4/a), ATP and ADP concentrations, 350:663
Inoue, M., *See* Kashiba, M.
Inoue, S., *See* Kashiba, M.
Inoue, Y., *See* Sugiyama, K.-i.
Insall, R., *See* Swigart, P.
Inukai, K.
——; Funaki, M.; Nawano, M.; Katagiri, H.; Ogihara, T.; Anai, M.; Onishi, Y.; Sakoda, H.; Ono, H.; Fukushima, Y.; Kikuchi, M.; Oka, Y.; Asano, T.
The N-terminal 34 residues of the 55 kDa regulatory subunits of phosphoinositide 3-kinase interact with tubulin, 346:483
Iozzo, R. V., *See* Laine, P.
Ireland, L. S., *See* Kelly, V. P.
Irie, S., *See* Iijima, K.
Irimura, T., *See* Iida, S.-i
Irvine, R. F., *See* Ciruela, A.; Smith, P. M.
Irving, R. A., *See* Nuttall, S. D.
Isaacs, N. W., *See* Ridge, J. P.
Isenmann, S., *See* Lan, S.
Ishac, E. J. N., *See* Nguyen, V.-A. T.
Ishii, A., *See* Chen, H.
Ishikawa, T., *See* Kashiba, M.
Ishikura, S., *See* Ohta, T.
Ismail, Z., *See* Bruce, L. J.
Isobe, K.-i., *See* Hasegawa, T.
Isobe, M., *See* Takai, A.
Iswantini, D.
——; Kano, K.; Ikeda, T.
Kinetics and thermodynamics of activation of quinoprotein glucose dehydrogenase apoenzyme *in vivo* and catalytic activity of the activated enzyme in *Escherichia coli* cells, 350: 917
Itani, O. A., *See* Auerbach, S. D.
Itaya, A., *See* Kameoka, M.
Ito, M., *See* Fukushi-Irié, M.
Ito, Y., *See* Ariga, M.; Takeuchi, H.
Iwahashi, H.
——; Some polyphenols inhibit the formation of pentyl radical and octanoic acid radical in the reaction mixture of linoleic acid hydroperoxide with ferrous ions, 346:265
Iynedjian, P. B., *See* Bosco, D.; Fleischmann, M.
——; Roth, R. A.; Fleischmann, M.; Gjinovci, A.
Activation of protein kinase B/cAkt in hepatocytes is sufficient for the induction of expression of the gene encoding glucokinase, 351:621
Izawa, S., *See* Sugiyama, K.-i.
Izquierdo, J. M., *See* Di Liegro, C. M.
——; Cuezva, J. M.
Internal-ribosome-entry-site functional activity of the 3′-untranslated region of the mRNA for the β subunit of mitochondrial H^+-ATP synthase, 346:849
Izumi, Y., *See* Matsushima, N.
Izumo, S., *See* Aoki, H.

Jachno, K. M., *See* Elleman, T. C.
Jackson, R. J., *See* Nash, P.
Jacobson, A.
——; Brinck, J.; Briskin, M. J.; Spicer, A. P.; Heldin, P.
Expression of human hyaluronan synthases in response to external stimuli, 348:29
Jacobson, E. L., *See* Wondrak, G. T.
Jacobson, M. K., *See* Wondrak, G. T.
Jaffrézou, J.-P., *See* Plo, I.
Jagiello, I., *See* Beullens, M.
Jakobs, K. H., *See* Blomquist, A.
James, D. E., *See* Shewan, A. M.
James, R., *See* Busch, J. L. H.
Janes, N., *See* Komatsu, H.
Janoueix-Lerosey, I., *See* Traver, S.
Jansen, P. L. M., *See* Renes, J.
Jariel-Encontre, I., *See* Pariat, M.
Jean, J.-C., *See* Cao, Y.-X.

© 2001 Biochemical Society

Jefferson, L. S., *See* Shah, O. J.
Jehl-Pietri, C.
——; Bastie, C.; Gillot, I.; Luquet, S.; Grimaldi, P. A.
Peroxisome-proliferator-activated receptor δ mediates the effects of long-chain fatty acids on post-confluent cell proliferation, 350:93
Jehnichen, P., *See* Husmann, M.
Jelezarova, E.
——; Vogt, A.; Lutz, H. U.
Interaction of $C3b_2$—IgG complexes with complement proteins properdin, factor B and factor H: implications for amplification, 349: 217
Jellinek, D. A.
——; Chang, A. C.; Larsen, M. R.; Wang, X.; Robinson, P. J.; Reddel, R. R.
Stanniocalcin 1 and 2 are secreted as phosphoproteins from human fibrosarcoma cells, 350:453
Jelokhani-Niaraki, M.
——; Kondejewski, L. H.; Farmer, S. W.; Hancock, R. E. W.; Kay, C. M.; Hodges, R. S.
Diasteroisomeric analogues of gramicidin S: structure, biological activity and interaction with lipid bilayers, 349:747
Jenkins, S. M.
——; Zinnerman, M.; Garner, C.; Johnson, G. V. W.
Modulation of tau phosphorylation and intracellular localization by cellular stress, 345:263
Jennings, K. H., *See* Ward, R. V.
Jensen, A., *See* Lohse, A.
Jensen, C. L., *See* Stephenson, K.
Jensen, J., *See* Whitehead, J. P.
Jensen, P. E.
——; Reid, J. D.; Hunter, C. N.
Modification of cysteine residues in the ChlI and ChlH subunits of magnesium chelatase results in enzyme inactivation, 352:435
Jeon, J. W., *See* Cho, S. Y.
Jeong, M.-J., *See* Yoo, J.
Jepras, R., *See* Ward, R. V.
Jernström, B., *See* Sundberg, K.
Jesaitis, A. J., *See* Gripentrog, J. M.
Jez, J. M., *See* Penning, T. M.
Jia, L., *See* Tucker, A. L.
Jiang, J., *See* Tu, Q.
Jiang, X., *See* McAbee, D. D.
Jin, J.-P.
——; Walsh, M. P.; Sutherland, C.; Chen, W.
A role for serine-175 in modulating the molecular conformation of calponin, 350:579
Jin, M.-h., *See* Uratani, Y.
Jin, P., *See* Sun, Y.
Jinbo, Y., *See* Matsushima, N.
Jo, Y.
——; Yeon, J.; Kim, H.-J.; Lee, S.-T.
Analysis of tissue inhibitor of metalloproteinases-2 effect on pro-matrix metalloproteinase-2 activation by membrane-type 1 matrix metalloproteinase using baculovirus/insect-cell expression system, 345:511
Joaquin, M., *See* Fernández de Mattos, S. F.
Johansson, J., *See* Danlois, F.
Johnatty, R. N., *See* Bryson, H.
Johnson, A. E., *See* Hackeng, T. M.
Johnson, G. V. W., *See* Jenkins, S. M.
Johnson, J. D., *See* Lee, S. H.
Johnson, K. S. H., *See* Becker, D.
Johnson, P. E.
——; Fox, S. R.; Hills, M. J.; Rawsthorne, S.
Inhibition by long-chain acyl-CoAs of glucose 6-phosphate metabolism in plastids isolated from developing embryos of oilseed rape (*Brassica napus* L.), 348:145, 349:895
Jolliffe, C. N.
——; Harvey, K. F.; Haines, B. P.; Parasivam, G.; Kumar, S.
Identification of multiple proteins expressed in murine embryos as binding partners for the WW domains of the ubiquitin-protein ligase Nedd4, 351:557
Jones, A. D., *See* Reddy, S.
Jones, A. L.
——; Herbert, D.; Rutter, A. J.; Dancer, J. E.; Harwood, J. L.
Novel inhibitors of the condensing enzymes of the Type II fatty acid synthase of pea *(Pisum sativum)*, 347:205
Jones, D., *See* Jones, G.
Jones, G.
——; Chu, Y. X.; Schelling, D.; Jones, D.
Regulation of the juvenile hormone esterase gene by a composite core promoter, 346:233
Jones, I. M., *See* Brown, D. R.
Jones, K. T.
——; Matsuda, M.; Parrington, J.; Katan, M.; Swann, K.
Different Ca^{2+}-releasing abilities of sperm extracts compared with tissue extracts and phospholipase C isoforms in sea urchin egg homogenate and mouse eggs, 346: 743
Jones, M. R., *See* Ridge, J. P.
Jones, N. A., *See* Stein, S. C.
Jones, R. B., *See* Cadenas, S.
Jonk, L. J. C., *See* Schuringa, J.-J.
Joost, H.-G., *See* Doege, H.
Jørgensen, S. T., *See* Stephenson, K.
Joulie, C., *See* Hospital, V.
Jousse, C., *See* Fafournoux, P.
Jovall, P.-Å., *See* Karlsson, N. G.
Ju, H.
——; Venema, V. J.;; Liang, H.; Harris, M. B.; Zou, R.; Venema, R. C.
Bradykinin activates the Janus-activated kinase/signal transducers and activators of transcription (JAK/STAT) pathway in vascular endothelial cells: localization of JAK/STAT signalling proteins in plasmalemmal caveolae, 351:257
Juliano, L., *See* Portaro, F. C. V.; Sanderson, S. J.
Juliano, M. A., *See* Portaro, F. C. V.; Sanderson, S. J.
Jungbauer, A., *See* Graumann, K.
Jungermann, K., *See* Krones, A.
Jüngling, E., *See* McKay, R. R.
Jupin, I., *See* Héricourt, F.
Jürgens, M., *See* Calvete, J. J.

Kaderbhai, M. A., *See* Liu, Y.-Y.
Kaderbhai, N., *See* Liu, Y.-Y.
Kadono-Okuda, K., *See* Finlin, B. S.
Kafasla, P.
——; Patrinou-Georgoula, M.; Guialis, A.
The 72/74-kDa polypeptides of the 70–110 S large heterogeneous nuclear ribonucleoprotein complex (LH-nRNP) represent a discrete subset of the hnRNP M protein family, 350:495
Kagami, J., *See* Suh, D.-Y.
Kageyama, A., *See* Kashiba, M.
Kageyama, H., *See* Kashiba, M.
Kähäri, V.-M., *See* Laine, P.
Kahn, E. S., *See* Pajor, A. M.
Kaiser, N., *See* Khamaisi, M.
Kalisz, H. M., *See* Witt, S.
Kallenbach, N. R., *See* Taudte, S.
Kallijärvi, J., *See* Baumann, M. H.
Kamel-Reid, S., *See* Lichty, B. D.
Kameoka, M.
——; Ota, K.; Tetsuka, T.; Tanaka, Y.; Itaya, A.; Okamoto, T.; Yoshihara, K.
Evidence for regulation of NF-κB by poly(ADP-ribose) polymerase, 346: 641
Kämpfer, H., *See* Frank, S.
Kamthong, P. J.
——; Wu, F.-m.; Wu, M.-c.
cAMP attenuates interleukin-1-stimulated macrophage colony-stimulating factor (M-CSF) expression, 350:115
Kana, B. D., *See* van der Spuy, J.
Kanda, T., *See* Kimura, T.
Kaneko, S., *See* Matsuo, N.; Shibuya, H.
Kanematsu, T., *See* Takeuchi, H.
Kang, Q.
——; Cao, Y.; Zolkiewska, A.
Metalloprotease-disintegrin ADAM 12 binds to the SH3 domain of Src and activates Src tyrosine kinase in C2C12 cells, 352:883
Kannius-Janson, M.
——; Lidberg, U.; Bjursell, G.; Nilsson, J.
The tissue-specific regulation of the carboxyl ester lipase gene in exocrine pancreas differs significantly between mouse and human, 351:367
Kanno, M., *See* Tamura, M.
Kano, K., *See* Iswantini, D.
Kantor, P. F., *See* Dyck, J. R. B.
Kanugula, S., *See* Xu-Welliver, M.
Karas, M., *See* Melcher, R.
Karlsson, A., *See* Balzarini, J.
Karlsson, E. N., *See* Abou Hachem, M.
Karlsson, M., *See* Landström, T. R.
Karlsson, N. G.
——; Olson, F. J.; Jovall, P.-Å.; Andersch, Y.; Enerbäck, L.; Hansson, G. C.
Identification of transient glycosylation alterations of sialylated mucin oligosaccharides during infection by the rat intestinal parasite *Nippostrongylus brasiliensis*, 350:805
Karpinich, N. O., *See* Haltiwanger, B. M.
Karran, E. H., *See* Ward, R. V.
Karten, B., *See* Pussinen, P. M.
Karunakaran, T., *See* Raj, P. A.
Karunartne, S. H. P. P., *See* Paton, M. G.
Kashiba, M.
——; Oka, J.; Ichikawa, R.; Kageyama, A.; Inayama, T.; Kageyama, H.; Ishikawa, T.; Nihikimi, M.; Inoue, M.; Inoue, S.
Impaired reductive regeneration of ascorbic acid in the Goto-Kakizaki diabetic rat, 351:313
Kashiwagi, K., *See* Sakata, K.
Kassis, S.
——; Melhuish, T.; Annan, R. S.; Chen, S. L.; Lee, J. C.; Livi, G. P.; Creasy, C. L.
Saccharomyces cerevisiae Yak1p protein kinase autophosphorylates on tyrosine residues and phosphorylates myelin basic protein on a C-terminal serine residue, 348: 263
Kastanos, E., *See* Zajac-Kaye, M.
Katagiri, H., *See* Inukai, K.
Katan, M., *See* Jones, K. T.; Takeuchi, H.
Kato, K., *See* Iida, S.-i
Katoaka, K., *See* Nakajima, A.
Katoh, H., *See* Fujita, H.

© 2001 Biochemical Society

Katso, R. M. T., *See* Parekh, D. B.
Katsuyama, M., *See* Adachi, K.
Kaufman, J., *See* Davis, D. A.
Kaufmann, R., *See* Frank, S.
Kaushik, N., *See* Sluis-Cremer, N.
Kavel, O., *See* Khamaisi, M.
Kawaguchi, T., *See* Sumitani, J.-i.
Kawai, Y., *See* Davis, M. G.
Kawamura, A., *See* Sugiyama, K.-i.
Kawashima, M., *See* Higuchi, K.
Kawashima, S., *See* Sato-Kusubata, K.
Kay, C. M., *See* Jelokhani-Niaraki, M.
Kaye, F. J., *See* Zajac-Kaye, M.
Kazama, M., *See* Hori, S.
Kedinger, M., *See* Olsen, J.
Keep, P. A., *See* Boehm, M. K.
Kelder, B., *See* Leonard, A. E.
Keller, W., *See* Bergt, C.
Kellett, G. L., *See* Helliwell, P. A.
——; Helliwell, P. A.
The diffusive component of intestinal glucose absorption is mediated by the glucose-induced recruitment of GLUT2 to the brush-border membrane, 350:155
Kelley, J. G., *See* Han, X.
Kellner, R., *See* Straif, D.
Kelly, J. M., *See* Wilkinson, S. R.
Kelly, K. A., *See* Meininger, C. J.
Kelly, S. M., *See* Leadbeater, C.
Kelly, V. P.
——; Ireland, L. S.; Ellis, E. M.; Hayes, J. D.
Purification from rat liver of a novel constitutively expressed member of the aldo-keto reductase 7 family that is widely distributed in extrahepatic tissues, 348:389
Kemp, P. R., *See* Martin, K. M.
——; Metcalfe, J. C.
Four isoforms of serum response factor that increase or inhibit smooth-muscle-specific promoter activity, 345:445
Kennedy, M. W.
——; Scott, J. C.; Lo, S.; Beauchamp, J.; McManus, D. P.
Sj-FABPc fatty-acid-binding protein of the human blood fluke *Schistosoma japonicum*: structural and functional characterization and unusual solvent exposure of a portal-proximal tryptophan residue, 349:377
Kerovuo, J.
——; Rouvinen, J.; Hatzack, F.
Analysis of *myo*-inositol hexakisphosphate hydrolysis by *Bacillus* phytase: indication of a novel reaction mechanism, 352:623
Kessler, A., *See* Till, M.
Kessler, B., *See* Ren, Q.
Kester, H. C. M., *See* Pařenicová, L.
——; Benen, J. A. E.; Visser, J.; Warren, M. E.; Orlando, R.; Bergmann, C.; Magaud, D.; Anker, D.; Doutheau, A.
Tandem mass spectrometric analysis of *Aspergillus niger* pectin methylesterase: mode of action on fully methyl-esterified oligogalacturonates, 346:469
Khamaisi, M.
——; Kavel, O.; Rosenstock, M.; Porat, M.; Yuli, M.; Kaiser, N.; Rudich, A.
Effect of inhibition of glutathione synthesis on insulin action: *in vivo* and *in vitro* studies using buthionine sulfoximine, 349:579
Khan, M. U., *See* Williams, J. P.
Khanolkar, A. D., *See* Liu, J.
Khillan, J. S., *See* Yuan, C. M.
Kholodenko, B., *See* Marcinkeviciute, A.
Kholodenko, B. N.
——; Brown, G. C.; Hoek, J. B.
Diffusion control of protein phosphorylation in signal transduction pathways, 350:901
Kietzmann, T., *See* Krones, A.
Kikuchi, M., *See* Inukai, K.
Kikuchi, Y., *See* Saito, T.
Kilburn, D. G., *See* Boraston, A. B.
Kim, B.-C., *See* Woo, C.-H.
Kim, C.-W., *See* Hyun, Y.-L.
Kim, D. G., *See* Dodt, G.
Kim, D. H., *See* Bandyopadhyay, A.
Kim, H., *See* Park, K. C.
Kim, H.-G., *See* Kim, I.
Kim, H.-H., *See* Kim, I.
Kim, H.-J., *See* Jo, Y.
Kim, H. M., *See* Koo, H. M.
Kim, H.-N., *See* Do, S.-I.
Kim, H. S., *See* Kim, S. S.
Kim, H.-Y., *See* Li, B.
Kim, I.
——; Kim, H.-G.; Kim, H.-H.; Park, S. K.; Uhm, C.-S.; Lee, Z. H.; Koh, G. Y.
Hepatic expression, synthesis and secretion of a novel fibrinogen/angiopoietin-related protein that prevents endothelial-cell apoptosis, 346:603
Kim, J., *See* Kiss, A.
Kim, J.-H., *See* Woo, C.-H.
Kim, J. H., *See* Kim, S. S.
Kim, K. P.
——; Han, S. K.; Hong, M.; Cho, W.
The molecular basis of phosphatidylcholine preference of human group-V phospholipase A_2, 348:643
Kim, S., *See* Hyun, Y.-L.
Kim, S.-H., *See* Lee, W.-J.; Yoo, J.
Kim, S. S.
——; Kim, J. H.; Kim, H. S.; Park, D. E.; Chung, C. H.
Involvement of the θ-type protein kinase C in translocation of myristoylated alanine-rich C kinase substrate (MARCKS) during myogenesis of chick embryonic myoblasts, 347:139
Kim, Y.-S., *See* Lee, W.-J.
Kim, Y. S., *See* Koo, H. M.
Kimata, K., *See* Rong, J.
Kimball, S. R., *See* Shah, O. J.
Kimura, J., *See* Kumano, T.
Kimura, T.
——; Watanabe, T.; Sato, K.; Kon, J.; Tomura, H.; Tamama, K.-i.; Kuwabara, A.; Kanda, T.; Kobayashi, I.; Ohta, H.; Ui, M.; Okajima, F.
Sphingosine 1-phosphate stimualtes proliferation and migration of human endothelial cells possible through the lipid receptors, Edg-1 and Edg-3, 348:71
King, R., *See* Gardner, R. C.
Kinzel, V., *See* Thullner, S.
Kirkham, S., *See* Sheehan, J. K.
Kirkland, J. L., *See* Guo, W.
Kirschenlohr, H. L., *See* Smith, G. A.
——; Grace, A. A.; Vandenberg, J. I.; Metcalfe, J. C.; Smith, G. A.
Estimation of systolic and diastolic free intracellular Ca^{2+} by titration of Ca^{2+} buffering in the ferret heart, 346:385
Kishi, K., *See* Wang, L.
Kiss, A.
——; Farah, K.; Kim, J.; Garriock, R. J.; Drysdale, T. A.; Hammond, J. R.
Molecular cloning and functional characterization of inhibitor-sensitive (mENT1) and inhibitor-resistant (mENT2) equilibrative nucleoside transporters from mouse brain, 352:363
Kiss, Z., *See* Huang, J.-S.
Kiššová, I., *See* Sokolíková, B.
Kitajima, M., *See* Shimoyama, Y.
Klarskov, K., *See* Ntarima, P.
Klatt, P.
——; Cacho, J.; Crespo, M. D.; Herrera, E.; Ramos, P.
Nitric oxide inhibits isoproterenol-stimulated adipocyte lipolysis through oxidative inactivation of the β-agonist, 351:485
——; Pineda Molina, E.; Pérez-Sala, D.; Lamas, S.
Novel application of *S*-nitrosoglutathione-Sepharose to identify proteins that are potential targets for *S*-nitrosoglutathione-induced mixed-disulphide formation, 349:567
Kleijn, M.
——; Proud, C. G.
Glucose and amino acids modulate translation factor activationby growth factors in PC12 cells, 347: 389
Klein, C., *See* Lischke, A.
Klemm, D. J., *See* Routes, J. M.
Kliper, S., *See* Albeck, A.
Klotz, L.-O.
——; Schieke, S. M.; Sies, H.; Holbrook, N. J.
Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts, 352:219
Klugbauer, N., *See* Hohaus, A.
Knaus, U. G., *See* Wen, Y.
Knecht, E., *See* Brooks, P.
Knight, B. L., *See* Patel, D. D.
Knight, E. L., *See* Warner, A. J.
Knittel, T., *See* Dudás, J.
Knott, A., *See* Bing, W.
Knott, T. G.
——; Birdsey, G. M.; Sinclair, K. E.; Gallagher, I. M.; Purdue, P. E.; Danpure, C. J.
The peroxisomal targeting sequence type 1 receptor, Pex5p, and the peroxisomal import efficiency of alanine: glyoxylate aminotransferase, 352:409
Kobayashi, H., *See* Matsuo, N.
Kobayashi, I., *See* Kimura, T.
Kobayashi, T., *See* Nomura, K.
Koch, H.
——; Hofmann, K.; Brose, N.
Definition of Munc13-homology-domains and characterization of a novel ubiquitously expressed Munc13 isoform, 349:247
Kodama, T., *See* Matsumoto, K.
Koesling, D., *See* Gorren, A. C. F.
Koh, G. Y., *See* Kim, I.
Koivula, A., *See* Becker, D.
Kojima, I., *See* Omata, W.
Kol, O., *See* Guerardel, Y.
Kolarov, J., *See* Sokolíková, B.
Kolch, W.
——; Meaningful relationships: the regulation of the Ras/Raf/MEK/ERK pathway by protein interactions, 351:289
Kolkman, J. A.
——; Mertens, K.
Surface-loop residue Lys^{316} in blood coagulation Factor IX is a major determinant for Factor X but not antithrombin recognition, 350:701
Kolpakova, E.
——; Frengen, E.; Stokke, T.; Olsnes, S.
Organization, chromosomal localization and promoter analysis of the gene encoding human acidic

© 2001 Biochemical Society

fibroblast growth factor intracellular binding protein, 352:629
Kolset, S. O., *See* Halvorsen, B.
Komatsu, H.
——; Bouma, B.; Wirtz, K. W. A.; Taraschi, T. F.; Janes, N.
Activity of phosphatidylinositol transfer protein is sensitive to ethanol and membrane curvature, 348:667
Kon, J., *See* Kimura, T.; Murata, N.
Kondejewski, L. H., *See* Jelokhani-Niaraki, M.
Kondo, T.
——; Mima, S.; Fukuma, N., Sekimizu, K.; Tsuchiya, T.; Mizushima, T.
Suppression of temperature-sensitivity of a *dnaA46* mutant by excessive DNA supercoiling, 348:375
Kong, W.
——; Shiota, S.; Shi, Y.; Nakayama, H.; Nakayama, K.
A novel peroxiredoxin of the plant *Sedum lineare* is a homologue of *Escherichia coli* bacterioferritin co-migratory protein (Bcp), 351:107
Kong, Y., *See* Yang, Q.
Konno, H.
——; Yodogawa, M.; Stumpp, M. T.; Kroth, P.; Strotmann, H.; Motohashi, K.; Amano, T.; Hisabori, T.
Inverse regulation of F_1-ATPase activity by a mutation at the regulatory region on the γ subunit of chloroplast ATP synthase, 352: 783
Koo, H. M.
——; Choi, S.-O; Kim, H. M.; Kim, Y. S.
Identification of active-site residues in *Bradyrhizobium japonicum* malonamidase E2, 349:501
Koo, P. H., *See* Riely, G. J.
Kopchick, J. J., *See* Leonard, A. E.
Korda, M., *See* Tuckwell, D. S.
Koritschoner, N. P., *See* Panzetta-Dutari, G. M.
Kortylewski, M., *See* Haan, S.
Koshkin, V.
——; Greenberg, M. L.
Oxidative phosphorylation in cardiolipin-lacking yeast mitochondria, 347:687
Kosk-Kosicka, D., *See* Lee, S. H.
Kosman, D. J., *See* Hassett, R.
Kosower, N. S., *See* Barnoy, S.
Kostka, S., *See* Pevzner, V.
Kostova, Z.
——; Rancour, D. M.; Menon, A. K.; Orlean, P.
Photoaffinity labelling with P^3-(4-azidoanilido)uridine 5′-triphosphate identifies Gpi3p as the UDP-GlcNAc-binding subunit of the enzyme that catalyses formation of GlcNAc-phosphatidylinositol, the first glycolipid intermediate in glycosylphosphatidylinositol synthesis, 350:815
Kotsonis, P.
——; Fröhlich, L. G.; Shutenko, Z. V.; Horejsi, R.; Pfleiderer, W.; Schmidt, H. H. H. W.
Allosteric regulation of neuronal nitric oxide synthase by tetrahydrobiopterin and suppression of auto-damaging superoxide, 346: 767
Koumura, T., *See* Nomura, K.
Kovalszky, I., *See* Dudás, J.
Koyasu, M., *See* Takai, A.
Kozaci, L. D., *See* Bryson, H.
Kozma, S. C., *See* Coulonval, K.
Kraft, R., *See* Pevzner, V.
Kragh-Hansen, U., *See* Watanabe, H.
Krämer, C., *See* Drews, G.
Kraus, A., *See* Sugden, M. C.
Krause, S. W.
——; Rehli, M.; Heinz, S.; Ebner, R.; Andreesen, R.
Characterization of MAX.3 antigen, a glycoprotein expressed on mature macrophages, dendritic cells and blood platelets: identity with CD84, 346:729
Krause, T.
——; Lüersen, K.; Wrenger, C.; Gilberger, T.-W.; Müller, S.; Walter, R. D.
The ornithine decarboxylase domain of the bifunctional ornithine decarboxylase/*S*-adenosylmethionine decarboxylase of *Plasmodium falciparum*: recombinant expression and catalytic properties of two different constructs, 352:287
Krause, U., *See* Deprez, J.
Krieg, P., *See* Bürger, F.
Krikken, I., *See* Renes, J.
Krippeit-Drews, P., *See* Drews, G.
Krishna Rao, J. V., *See* Talwar, R.
Križaj, I., *See* Prijatelj, P.
Kroeger, P. E., *See* Leonard, A. E.
Krones, A.
——; Kietzmann, T.; Jungermann, K.
Perivenous localization of insulin receptor protein in rat liver, and regulation of its expression by glucose and oxygen in hepatocyte cultures, 348:433
Krook, A., *See* Tonkonogi, M.
Kroth, P., *See* Konno, H.
Kruijer, W., *See* Schuringa, J.-J.
Kruse, C.
——; Willkomm, D. K.; Grünweller, A.; Vollbrandt, T.; Sommer, S.; Busch, S.; Pfeiffer, T.; Brinkmann, J.; Hartmann, R. K.; Müller, P. K.
Export and transport of tRNA are coupled to a multi-protein complex, 346:107
Krzewinski-Recchi, M.-A., *See* Harduin-Lepers, A.
Kubitz, R., *See* Dombrowski, F.
Kuchel, P. W., *See* Torres, A. M.
Kudlow, J. E., *See* Han, I.; Su, K.
Kudo, I., *See* Nakatani, N.
Kuhlman, P. A.
——; Characterization of the actin filament capping state in human erythrocyte ghost and cytoskeletal preparations, 349:105
Kühn, H., *See* Belkner, J.
Kuipers, J., *See* van der Knaap, J. A.
Kular, G., *See* Dowler, S.
Kumano, T.
——; Kumura, J.; Hayakari, M.; Yamazaki, T.; Sawamura, D.; Tsuchida, S.
Polymorphism of the glutathione transferase subunit 3 in Sprague-dawley rats involves a reactive cysteine residue, 350:405
Kumar, A., *See* Tokuda, T.
Kumar, S., *See* Jolliffe, C. N.
Kume, K., *See* Nakatani, N.
Kuno, A., *See* Matsuo, N.
Kunos, G., *See* Liu, J.
Kuo, P. H.
——; Nakamoto, R. K.
Intragenic and intergenic suppression of the *Escherichia coli* ATP synthase subunit *a* mutation of Gly-213 to Asn: functional interactions between residues in the proton transport site, 347:797
Kuo, S., *See* Rogers, R. J.
Kuraishi, T.
——; Sun, Y.; Aoki, F.; Imakawa, K.; Sakai, S.
The poly(A) tail length of casein mRNA in the lactating mammary gland changes depending upon the accumulation and removal of milk, 347:579
Kurland, I. J.
——; Chapman, B.; El-Maghrabi, M. R.
N- and C-termini modulate the effects of pH and phosphorylation on hepatic 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, 347:459
Kurz, A. K.
——; Block, C.; Graf, D.; vom Dahl, S.; Schliess, F.; Häussinger, D.
Phosphoinositide 3-kinase-dependent Ras activation by tauroursodesoxycholate in rat liver, 350:207
Kusakabe, I., *See* Matsuo, N.
Kusche-Gullberg, M., *See* Rong, J.
Kutay, S., *See* Sheehan, J. K.
Kuwabara, A., *See* Kimura, T.; Murata, N.
Kwak, C.-S., *See* Moon, I.-J.
Kwan, A. P. L., *See* Tselepis, C.
Kwok, P.-Y., *See* Ritter, D.
Kwon, B.-M., *See* Yoo, J.

Laburthe, M., *See* Couvineau, A.
Lacabaratz-Porret, C.
——; Launay, S.; Corvazier, E.; Bredoux, R.; Papp, B.; Enouf, J.
Biogenesis of endoplasmic reticulum proteins involved in Ca^{2+} signalling during megakaryochtic differentiation: an *in vitro* study, 350: 723
Lacapère, J.-J.
——; Robert, J.-C.; Thomas-Soumarmon, A.
Efficient solubilization and purification of the gastric H^+,K^+-ATPase for functional and structural studies, 345:239
Ladu, M. J., *See* Tokuda, T.
Lafeber, F. P. J. G., *See* Verzijl, N.
Lafuse, W. P.
——; Alvarez, G. R.; Zwilling, B. S.
Regulation of Nramp1 mRNA stability by oxidants and protein kinase C in RAW264.7 macrophages expressing *Nramp1*^{Gly169}, 351:687
Lagarde, M., *See* Croset, M.; Luquain, C.
Laggner, H.
——; Goldenberg, H.
Interaction of respiratory burst and uptake of dehydroascorbic acid in differentiated HL-60 cells, 345:195
Lai, F. A., *See* Fitzsimmons, T. J.
Lai, T., *See* Mihai, R.
Laine, P.
——; Reunanen, N.; Ravanti, L.; Foschi, M.; Santra, M.; Iozzo, R. V.; Kähäri, V.-M.
Activation of extracellular signal-regulated protein kinase 1,2 results in down-regulation of decorin expression in fibroblasts, 349:19
Lakey, J. H., *See* Stephenson, K.
Lalli, G., *See* Herreros, J.
Lamas, S., *See* Klatt, P.
Lamb, H. K., *See* Levett, L. J.
Lambeau, G., *See* Lizano, S.
Lamfarraj, H., *See* Monboisse, J.-C.
Lamy, F., *See* Coulonval, K.
Lamy, S., *See* Gingras, D.
Lan, L.
——; Isenmann, S.; Wattenberg, B. W.
Targeting and insertion of C-terminally anchored proteins to the mitochondrial outer membrane is specific and saturablebut does not

© 2001 Biochemical Society

strictly require ATP or molecular chaperones, 349:611
Lan, Z.-D., *See* Dai, L.
Landi, L., *See* Stefanelli, C.
Landström, T. R.
——; Mei, J.; Karlsson, M.; Manganiello, V.; Degerman, E.
Down-regulation of cyclic-nucleotide phosphodiesterase 3B in 3T3-L1 adipocytes induced by tumour necrosis factor α and cAMP, 346: 337
Lane, B. G.
——; Oxalate oxidases and differentiation surface structure in wheat: germins, 349:309
Lane, D. P., *See* Hupp, T. R.
Lane, P., *See* Thornton, R. D.
Lang, F., *See* Bröer, A.; Dimer, K.-S.
Lang, P., *See* Wong, E. Y. M.
Langdown, M. L., *See* Holness, M. J.; Sugden, M. C.
Langer, T., *See* Huber, I.
Langeveld, A., *See* Valdenaire, O.
Langfort, J.
——; Ploug, T.; Ihlemann, J.; Holm, C.; Galbo, H.
Stimulation of hormone-sensitive lipase activity by contractions in rat skeletal muscle, 351:207
Lankinen, H., *See* Baumann, M. H.
Lanzotti, V., *See* D'Acquisto, F.
Lapatto, R., *See* Levonen, A.-L.
LaPlante, J. M.
——; O'Rourke, F.; Lu, X.; Fein, A.; Olsen, A.; Feinstein, M. B.
Cloning of human Ca^{2+} homoeostasis endoplasmic reticulum protein (CHERP): regulated expression of antisense cDNA depletes CHERP, inhibits intracellular Ca^{2+} mobilization and decreases cell proliferation, 348:189
Laporte, J., *See* Minic, Z.
LaPushin, R., *See* Fang, X.; Mao, M.
Larsen, M. R., *See* Jellinek, D. A.
Larsson, A., *See* Njålsson, R.
Larsson, C., *See* Bonini, B. M.; Ellis, S. W.
Latchman, D. S., *See* Freeland, K.
Latgé, J.-P., *See* Woodman, Z. L.
Lauder, R. M.
——; Huckerby, T. N.; Nieduszynski, I. A.
Increased incidence of unsulphated and 4-sulphated residues in the chondroitin sulphate linkage region observed by high-pH anion-exchange chromatographt, 347:339
Laugier, C., *See* Luquain, C.
Launay, S., *See* Lacabaratz-Porret, C.
Lauper, S., *See* Antonsson, B.
Laurent, G., *See* Plo, I.
Lautier, D., *See* Plo, I.
Lavu, E., *See* Bruce, L. J.
Lawrence, D. S., *See* Yan, X.
Layton, J. E., *See* Hammacher, A.
Lazdunski, M., *See* Lizano, S.
Leadbeater, C.
——; McIver, L.; Campopiano, D. J.; Webster, S. P.; Baxter, R. L.; Kelly, S. M.; Price, N. C.; Lysek, D. A.; Noble, M. A.; Chapman, S. K.; Munro, A. W.
Probing the NADPH-binding site of *Escherichia coli* flavodoxin oxidoreductase, 352:257
Learmonth, M. P., *See* Duncan, R. R.
Lebreton, J., *See* Gonçalves, O.
Léchenne, B., *See* Woodman, Z. L.
Lee, A. H.
——; Hong, J.-H.; Seo, Y.-S.
Tumour necrosis factor-α and interferon-γ synergistically activate the RANTES promoter through nuclear κB and inerferon regulatory factor 1 (IRF-1) transcription factors, 350:131
Lee, B. R., *See* Nakamura, M.
Lee, C. H.
——; Park, M. H.
Human deoxyhypusine synthase: interrelationship between binding of NAD and substrates, 352:851
Lee, H.-C.
——; Yin, P.-H.; Lu, C.-Y.; Chi, C.-W.; Wei, Y.-H.
Increase of mitochondria and mitochondrial DNA in response to oxidative stress in human cells, 348: 425
Lee, J. C., *See* Kassis, S.
Lee, J.-H., *See* Moon, I.-J.
Lee, K.-H., *See* Oh, J.-E.
Lee, K. I., *See* Yoo, J.
Lee, K.-Y., *See* Do, S.-I.
Lee, S. H., *See* Cho, S. Y.
——; Johnson, J. D.; Walsh, M. P.; Van Lierop, J. E.; Sutherland, C.; Xu, A., Snedden, W. A.; Kosk-Kosicka, D.; Fromm, H.; Narayanan, N.; Cho, M. J.
Differential regulation of Ca^{2+}/calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca^{2+} concentration, 350:299
Lee, S. S., *See* Yoo, J.
Lee, S.-T., *See* Jo, Y.
Lee, T., *See* Zhang, L.
Lee, W.-J.
——; Kim, S.-H.; Kim, Y.-S.; Han, S.-J.; Park, K.-S.; Ryu, J.-H.; Hur, M.-W.; Choi, K.-Y.
Inhibition of mitogen-activated protein kinase by a *drosophila* dual-specific phosphatase, 349:821
Lee, Y., *See* Moon, I.-J.
Lee, Y.-T.
——; Duggleby, R. G.
Mutagenesis studies on the sensitivity of *Escherichia coli* acetohydroxyacid synthase II to herbicides and valine, 350:69
Lee, Z. H., *See* Kim, I.
Lee, Z.-W., *See* Woo, C.-H.
Leelavathy, V., *See* Talwar, R.
Lefebvre, O., *See* Olsen, J.
Lefebvre, T., *See* Guerardel, Y.
Legrand-Poels, S.
——; Schoonbroodt, S.; Piette, J.
Regulation of interleukin-6 gene expression by pro-inflammatory cytokines in a colon cancer cell line, 349:765
Le Guellec, D., *See* Yuan, C. M.
Lehming, N., *See* Rojo-Niersbach, E.
Lehnen, M., *See* Blomquist, A.
Leis, H. J., *See* Bergt, C.
Leitges, M., *See* Dekker, L. V.
Le Jean, M., *See* Curie, C.
Lemmon, M. A.
——; Ferguson, K. M.
Signal-dependent membrane targeting by pleckstrin homology (PH) domains, 350:1
Lennard, M. S., *See* Ellis, S. W.
Lenzen, S., *See* Alcazar, O.
Leonard, A. E.
——; Bobik, E. G.; Dorado, J.; Kroeger, P. E.; Chuang, L.-T.; Thurmond, J. M.; Parker-Barnes, J. M.; Das, T.; Huang, Y.-S.; Mukerji, P.
Cloning of a human cDNA encoding a novel enzyme involved in the elongation of long-chain polyunsaturated fatty acids, 350:765
——; Kelder, B.; Bobik, E. G.; Chuang, L.-T.; Parker-Barnes, J. M.; Thurmond, J. M.; Kroeger, P. E.; Kopchick, J. J.; Huang, Y.-S.; Mukerji, P.
cDNA cloning and characterization of human Δ^5-desaturase involved in the biosynthesis of arachidonic acid, 347:719
Le Petit-Thevenin, J., *See* Nganga, A.
Leproust-Lecoester, L., *See* Minic, Z.
Leslie, N. R., *See* Parekh, D. B.; Peyrollier, K.
——; Gray, A.; Pass, I.; Orchiston, E. A.; Downes, C. P.
Analysis of the cellular functions of PTEN using catalytic domain and C-terminal mutations: differential effects of C-terminal deletion on signalling pathways downstream of phosphoinositide 3-kinase, 346:827
Le Stunff, H.
——; Dokhac, L.; Bourgoin, S.; Bader, M.-F.; Harbon, S.
Phospholipase D in rat myometrium: occurence of a membrane-bound ARF6 (ADP-ribosylation factor 6)-regulated activity controlled by βγ subunits of heterotrimeric G-proteins, 352:491
Letcher, A. J., *See* Smith, P. M.
Letellier, L., *See* Hetru, C.
Letellier, T., *See* Rossignol, R.
Leuthäuser, K.
——; Gujer, R.; Aldecoa, A.; McKinney, R. A.; Muff, R.; Fischer, J. A.; Born, W.
Receptor-activity-modifying protein 1 forms heterodimers with two G-protein-coupled receptors to define ligand recognition, 351:347
Levade, T., *See* Plo, I.
Levett, L. J.
——; Si-Hoe, S. M.; Liddle, S.; Wheeler, K.; Smith, D.; Lamb, H. K.; Newton, G. H.; Coggins, J. R.; Hawkins, A. R.
Identification of domains responsible for signal recognition and transduction within the QUTR transcription repressor protein, 350: 189
Levine, R. L., *See* Davis, D. A.
Levonen, A.-L.
——; Lapatto, R.; Saksela, M.; Raivio, K. O.
Human cystathione γ-lyase: developmental and *in vitro* expression of two isoforms, 347:291
Lew, D. B., *See* Hyun, Y.-L.
Lew, R. A., *See* Shrimpton, C. N.
Lhenry, F., *See* Roussel, D.
Li, B.
——; Zhang, H.; Akbar, M.; Kim, H.-Y.
Negative regulation of cytosolic phospholipase A_2 by melatonin in the rat pineal gland, 351:709
Li, G., *See* Liang, Z.
Li, J., *See* Negash, S.
——; Quilty, J.; Popov, M.; Reithmeier, R. A. F.
Processing of N-linked oliosaccharide depends on its location in the anion exchanger, AE1, membrane glycoprotein, 349:51
Li, J.-p., *See* Hagner-McWhirter, A.
Li, L., *See* Omata, W.
Li, R., *See* Hodny, Z.; Luciakova, K.
Li, W., *See* Collins, T. J.; Nagarajan, R. P.
Li, W. P., *See* McCormick, C. C.
Li, Y., *See* Palaparti, A.; Xie, W.
Liang, H., *See* Ju, H.
Liang, Z.
——; Mather, T.; Li, G.
GTPase mechanism and function: new insights from systematic mutational

© 2001 Biochemical Society

analysis of the phosphate-binding loop residue Ala^{30} of Rab5, 346:501
Liao, H.-K., *See* Chow, L.-P.
Liao, T.-H., *See* Wang, W.-Y.
Liau, G., *See* Vanguri, V. K.
Liaw, S.-H., *See* Wang, W.-Y.
Lichty, B. D.
——; Kamel-Reid, S.
Exon-skipping in *BCR/ABL* is induced by *ABL* exon 2, 348:63
Lidberg, U., *See* Kannius-Janson, M.
Lidder, S., *See* Riordan, S. M.
Liddle, S., *See* Levett, L. J.
Liebmann, C., *See* Graness, A.
Lievremont, J.-P., *See* McKay, R. R.
Ligaarden, S., *See* Halvorsen, B.
Lightfoot, T., *See* Ellis, S. W.
Lim, C. K., *See* Ellis, S. W.
——; Razzaque, M. A.; Luo, J.; Farmer, P. B.
Isolation and characterization of protoporphyrin glycoconjugates from rat Harderian gland by HPLC, capillary electrophoresis and HPLC/electrospray ionization MS, 347:757
Lim, H., *See* Sluis-Cremer, N.
Lim, I. K.
——; Park, T. J.; Paik, W. K.
Phosphorylation of methylated-DNA–protein-cysteine *S*-methyltransferase at serine 204 significantly increases its resistance to proteolytic digestion, 352:801
Lin, A., *See* Yip-Schneider, M. T.
Lin, H.-K., *See* Penning, T. M.
Lin, S.-C., *See* Fong, C. W.
Lin, W.-w.
——; Wang, H.-W.; Sum, C.; Liu, D.; Hew, C. L.; Chung, B.-c.
Zebrafish *fit-z-f1* gene has two promoters, is alternatively spliced, and is expressed in digestive organs, 348:439
Lindahl, U., *See* Hagner-McWhirter, A.; Rong, J.
Linden, J., *See* Tucker, A. L.
Ling, I. T., *See* Gunaratne, R. S.
Ling, M.-H., *See* Dai, L.
Lipp, M., *See* Pevzner, V.
Lipp, P., *See* Collins, T. J.
Lischke, A.
——; Klein, C.; Stierhof, Y.-D.; Hempel, M.; Mehlert, A.; Almeida, I. C.; Ferguson, M. A. J.; Overath, P.
Isolation and characterization of glycosylphosphatidylinositol-anchored, mucin-like surface glycoproteins from bloodstream forms of the freshwater-fish parasite *Trypanosoma carassii*, 345:693
Liscovitch, M.
——; Czarny, M.; Fiucci, G.; Tang, X.
Phospholipase D: molecular and cell biology of a novel gene family, 345:401
Lissitzky, J.-C.
——; Luis, J.; Munzer, J. S.; Benjannet, S.; Parat, F.; Chrétien, M.; Marvaldi, J.; Seidah, N. G.
Endoproteolytic processing of integrin pro-α subunits involves the redundant function of furin and proprotein convertase (PC) 5A, but not paired basic amino acid converting enzyme (PACE) 4, PC5B or PC7, 346:133
Litherland, G. J., *See* Peyrollier, K.
Little, C. B., *See* Rees, S. G.
Liu, B.
——; Rayment, S. A.; Gyurko, C.; Oppenheim, F. G.; Öffner, G. D.; Troxler, R. F.
The recombinant N-terminal region of human salivary mucin MG2 (MUC7) contains a binding domain for oral *Streptococci* and exhibits candidacidal activity, 345:557
Liu, C., *See* Zhang, W.
Liu, D., *See* Lin, W.-w.
Liu, J., *See* Chen, Q. M.
——; Gao, B.; Mirshahi, F.; Sanyal, A. J.; Khanolkar, A. D.; Makriyannis, A.; Kunos, G.
Functional CB1 cannabinoid receptors in human vascular endothelial cells, 346:835
——; Wu, J.; Oliver, C.; Shenolikar, S.; Brautigan, D. L.
Mutations of the serine phosphorylated in the protein phosphatase-1-binding motif in the skeletal muscle glycogen-targeting subunit, 346:77
Liu, S. C. H., *See* Pryor, P. R.
Liu, S.-L., *See* Chow, L.-P.
Liu, Y., *See* Chen, Y.-H.; Hutter, D.
Liu, Y.-Y.
——; Kaderbhai, N.; Kaderbhai, M. A.
A mammalian cytochrome fused to a chloroplast transit peptide is a functional haemoprotein and is imported into isolated chloroplasts, 351:377
Liu, Y.-Z., *See* Freeland, K.
Liuzzi, M., *See* Famulski, K. S.
Livi, G. P., *See* Kassis, S.
Lizano, S.
——; Angulo, Y.; Lomonte, B.; Fox, J. W.; Lambeau, G.; Lazdunski, M.; Gutiérrez, J. M.
Two phospholipase A_2 inhibitors from the plasma of *Cerrophidion (Bothrops) godmani* which selectively inhibit two different group-II phospholipase A_2 myotoxins from its own venom: isolation, molecular cloning and biological properties, 346:631
Lizcano, J. M.
——; Morrice, N.; Cohen, P.
Regulation of BAD by cAMP-dependent protein kinase is mediated via phosphorylation of a novel site, Ser^{155}, 349:547
——; Tipton, K. F.; Unzeta, M.
Time-dependent activation of the semicarbazide-sensitive amine oxidase (SSAO) from ox lung microsomes, 351:789
Lloubes, R., *See* Pasqualini, E.
Lloyd Raven, E., *See* Hiner, A. N. P.
Lo, S., *See* Kennedy, M. W.
Lo, S. H., *See* Chen, H.
Lobo, C.
——; Ruiz-Bellido, M. A.; Aledo, J. C.; Márquez, J.; Núñez de Castro, I.; Alonso, F. J.
Inhibition of glutaminase expression by antisense mRNA decreases growth and tumourigenicity of tumour cells, 348:257
Lochnit, G., *See* Wuhrer, M.
Loebel, D.
——; Scaloni, A.; Paolini, S.; Fini, C.; Ferrara, L.; Breer, H.; Pelosi, P.
Cloning, post-translational modifications, heterologous expression and ligand-binding of boar salivary lipocalin, 350:369
Loftus, J. C., *See* Rahman, S.
Loftus, R. W., *See* Auerbach, S. D.
Lohse, A.
——; Hardlei, T.; Jensen, A.; Plesner, I. W.; Bols, M.
Investigation of the slow inhibition of almond β-glucosidase and yeast isomaltase by 1-azasugar inhibitors: evidence for the 'direct binding' model, 349:211
Lois, L.-M., *See* Charon, L.
Loktionova, N. A., *See* Xu-Welliver, M.
Lombardo, D., *See* Nganga, A.; Pasqualini, E.
Lomonte, B., *See* Lizano, S.
Lopaschuk, G. D., *See* Dyck, J. R. B.
Lopez-Dee, J., *See* Warner, A. J.
López-Gómez, J., *See* Ribeiro, J. M.
Lorentsen, R. H.
——; Graversen, J. H.; Caterer, N. R.; Thøgersen, H. C.; Etzerodt, M.
The heparin-binding site in tetranectin is located in the n-terminal region and binding does not involve the carbohydrate recognition domain, 347:83
Lorimer, D. D., *See* Buggy, J. J.
Loscalzo, J., *See* Zhang, Y.-Y.
Louisot, P., *See* Greco, S.
Lu, C.-Y., *See* Lee, H.-C.
Lu, S. C., *See* Zeng, Z.
Lu, X., *See* Rahman, S.
Lu, Y., *See* Fang, X.; Mao, M.
Luberto, C., *See* van Tiel, C. M.
Luciakova, K.
——; Barath, P.; Li, R.; Zaid, A.; Nelson, B. D.
Activity of the human cytochrome c_1 promoter is modulated by E2F, 351:251
——; Hodny, Z.; Barath, P.; Nelson, B. D.
In vivo mapping of the human adenine nucleotide translocator-2 (ANT2) promoter provides support for regulation by a pair of proximal Sp1-activating sites and an upstream silencer element, 352:519
Lückhoff, A., *See* McKay, R. R.
Lüersen, K., *See* Krause, T.
——; Walter, R. D.; Müller, S.
Plasmodium falciparum-infected red blood cells depend on a functional glutathione *de novo* synthesis attributable to an enhanced loss of glutathione, 346:545
Luis, J., *See* Lissitzky, J.-C.
Luo, J., *See* Lim, C. K.
Luo, S., *See* Hill, J. E.; Marchesini, N.
Luo, X., *See* Helps, N. R.
Luquain, C.
——; Dolmazon, R.; Enderlin, J.-M.; Laugier, C.; Lagarde, M.; Pageaux, J.-F.
Bis(monoacylglycerol) phosphate in rat uterine stromal cells: structural characterization and specific esterification of docosahexaenoic acid, 351:795
Luquet, S., *See* Jehl-Pietri, C.
Lurin, C.
——; Güclü, J.; Cheniclet, C.; Carde, J.-P.; Barbier-Brygoo, H.; Maurel, C.
CLC-Nt1, a putative chloride channel protein of tobacco, co-localizes with mitochondrial membrane markers, 348:291
Lutz, H. U., *See* Jelezarova, E.
Luzio, J. P., *See* Ihrke, G.
Lysek, D. A., *See* Leadbeater, C.

Ma, B. J., *See* Mutter, T.
Ma, H., *See* Penning, T. M.
Ma, J., *See* Hayek, S. M.
Ma, K., *See* Sood, R.
Ma, P., *See* Bonini, B. M.
Macaulay, S. L., *See* Grusovin, J.
Maček, P., *See* Malovrh, P.
MacFarlane, M.
——; Cohen, G. M.; Dickens, M.
JNK (c-Jun N-terminal kinase) and p38 activation in receptor-mediated and chemically-induced apoptosis of

© 2001 Biochemical Society

T-cells: differential requirements for caspase activation, 348:93
MacGillvray, R. T. A., *See* He, Q.-Y.
Maciewicz, R. A., *See* Howard, L.
MacKenzie, S. J.
——; Houslay, M. D.
Action of rolipram on specific PDE4 cAMP phosphodiesterase isoforms and on the phosphorylation of cAMP-response-element-binding protein (CREB) and p38 mitogen-activated protein (MAP) kinase in U937 monocytic cells, 347:571
Mackintosh, C. A.
——; Feith, D. J.; Shantz, L. M.; Pegg, A. E.
Overexpression of antizyme in the hearts of transgenic mice prevents the isoprenaline-induced increase in cardiac ornithine decarboxylase activity and polyamines, but does not prevent cardiac hypertrophy, 350:645
——; Pegg, A. E.
Effect of spermine synthase deficiency on polyamine biosynthesis and content in mice and embryonic fibroblasts, and the sensitivity of fibroblasts to 1,3-bis-(2-chloroethyl)-*N*-nitrosourea, 351:439
Maclachlan, G., *See* Faik, A.
Macrez, N., *See* Boittin, F.-X.
Maden, B. E. H.
——; Tetrahydrofolate and tetrahydromethanopterin compared: functionally distinct carriers in C_1 metabolism, 350:609, 352:935
Maes, E., *See* Guerardel, Y.
Magaud, D., *See* Kester, H. C. M.
Mager, W. H., *See* Darley, C. P.
Magistrado, P. A., *See* Hanada, K.
Mahapatra, S.
——; Bhakta, S.; Ahamed, J.; Basu, J.
Characterization of derivatives of the high-molecular-mass penicillin-binding protein (PBP) 1 of *Mycobacterium leprae*, 350:75
Mahling, J., *See* Ellis, S. W.
Majumdar, S., *See* Reddy, M. C. M.
Mak, P., *See* Buggy, J. J.
Makker, S. P., *See* Oleinikov, A. V.
Makriyannis, A., *See* Liu, J.
Malejka-Giganti, D., *See* Brauze, D.
Malgat, M., *See* Rossignol, R.
Malik, T. H.
——; Shivdasani, R. A.
Structure and expression of a novel *frizzled* gene isolated from the developing mouse gut, 349:829
Malle, E., *See* Bergt, C.; Pussinen, P. M.
Malléa, M., *See* Chevalier, J.
Malovrh, P.
——; Barlic, A.; Podlesek, Z.; Maček, P.; Menestrina, G.; Anderluh, G.
Structure-function studies of tryptophan mutants of equinatoxin II, a sea anemone pore-forming protein, 346:223
Mampel, T., *See* Alvarez, R.
Manao, G., *See* Paoli, P.
Manca, L., *See* Corda, M.
Manca, M. F., *See* Sian, A. K.
Mandl, J., *See* Csala, M.
Manganiello, V., *See* Landström, T. R.
Mangroo, D., *See* Cleary, J. D.
Manigand, C., *See* Bertola, F.
Mannervik, B., *See* Njålsson, R.
Mannon, P. J.
——; Mele, J. M.
Peptide YY Y1 receptor activates mitogen-activated protein kinase and proliferation in gut epithelial cells via the epidermal growth factor receptor, 350:655
Mantle, T. J., *See* Cunningham, O.
Manzoni, M., *See* Monti, E.
Mao, J., *See* Hasegawa, T.
Mao, M.
——; Fang, X.; Lu, Y.; LaPushin, R.; Bast, R. C., Jr.; Mills, G. B.
Inhibition of growth-factor-induced phosphorylation and activation of protein kinase B/Akt by atypical protein kinase C in breast cancer cells, 352:475
Mao, Z., *See* Zeng, Z.
Maoret, J.-J., *See* Couvineau, A.
Marber, M. S., *See* Punn, A.
Marchesini, N.
——; Luo, S.; Rodrigues, C. O.; Moreno, S. N. J.; Docampo, R.
Acidocalcisomes and a vacuolar H^+-pyrophosphatase in malaria parasites, 347:243
Marcinkeviciute, A.
——; Mildaziene, V.; Crumm, S.; Demin, O.; Hoek, J. B.; Kholodenko, B.
Kinetics and control of oxidative phosphorylation in rat liver mitochondria after chronic ethanol feeding, 349:519
Marcinkiewicz, C., *See* Calvete, J. J.
Marcinkiewicz, M., *See* Ghaddar, G.
Marin, O., *See* Brunati, A. M.
Marini, S., *See* Santucci, R.
Marinos, R. S., *See* Meininger, C. J.
Marks, D., *See* Fowles, L. F.
Marks, F., *See* Bürger, F.
Markwell, R., *See* Gardner, R. C.
Márquez, J., *See* Gómez-Fabre, P. M.; Lobo, C.
Marrapodi, M., *See* De Fabiani, E.
Marrero, P. F., *See* Mascaró, C.
Marsh, B. J., *See* Shewan, A. M.
Marshak, D. R., *See* Russo, G. L.
Marshall, M. S., *See* Yip-Schneider, M. T.
Marston, S. B., *See* Bing, W.
Marti, L., *See* Enrique-Tarancón, G.
Martin, K. M.
——; Cooper, W. N.; Metcalfe, J. C.; Kemp, P. R.
Mouse BTEB3, a new member of the basic transcription element binding protein (BTEB) family, activates expression from GC-rich minimal promoter regions, 345:529
Martín, M. E.
——; Muñoz, F. M.; Salinas, M.; Fando, J. L.
Ischaemia induces changes in the association of the binding protein 4E-BP1 and eukaryotic initiation factor (eIF) 4G to eIF4E in differentiated PC12 cells, 351:327
Martin, P. E. M.
——; Steggles, J.; Wilson, C.; Ahmad, S.; Evans, W. H.
Targeting motifs and functional parameters governing the assembly of connexins into gap junctions, 349: 281; 350:943
Martin, S., *See* Shewan, A. M.
Martinez-Zaguilan, R., *See* Meininger, C. J.
Martinou, J.-C., *See* Antonsson, B.
Martín-Pérez, J., *See* Fresno Vara, J. A.
Maruyama, T., *See* Watanabe, H.
Marvaldi, J., *See* Lissitzky, J.-C.
Masala, B., *See* Corda, M.
Mascaró, C.N
——; Nadal, A.; Hegardt, F. G.; Marrero, P. F.; Haro, D.
Contribution of steroidogenic factor 1 to the regulation of cholesterol synthesis, 350:785
Mason, A. B., *See* He, Q.-Y.
Mason, G. G. F., *See* Brooks, P.; Gardner, R. C.
Massaad, C.
——; Garlatti, M.; Wilson, E. M.; Cadepond, F.; Barouki, R.
A natural sequence consisting of overlapping glucocorticoid-responsive elements mediates glucocorticoid, but not androgen, regulation of gene expression, 350: 123
Masulli, M., *See* Allocati, N.
Matej, L., *See* Qabar, A. N.
Mather, T., *See* Liang, Z.
Matsubara, E., *See* Tokuda, T.
Matsuda, J., *See* Hori, S.
Matsuda, M., *See* Jones, K. T.
Matsufuji, S., *See* Saito, T.
Matsumoto, K.
——; Sano, H.; Nagai, R.; Suzuki, H.; Kodama, T.; Yoshida, M.; Ueda, S.; Smedsrød, B.; Horiuchi, S.
Endocytic uptake of advanced glycation end products by mouse liver sinusoidal endothelial cells is mediated by a scavenger receptor distinct from the macrophage scavenger receptor class A, 352:233
Matsumoto, M., *See* Nomura, M.
——; Imagawa, M.; Aoki, Y.
Epidermal growth factor regulation of glutathione S-transferase gene expression in the rat is mediated by class Pi glutazthione S-transferase enhancer I, 349:225
Matsuo, N.
——; Kaneko, S.; Kuno, A.; Kobayashi, H.; Kusakabe, I.
Purification, characterization and gene cloning of two α-L-arabinofuranosidases from *Streptomyces chartreusis* GS901, 346: 9
Matsushima, N.
——; Hayashi, N.; Jinbo, Y.; Izumi, Y.
Ca^{2+}-bound calmodulin forms a compact globular structure on binding four trifluoperazine molecules in solution, 347:211
Mattes, R., *See* Rippmann, J. F.
Maurel, C., *See* Lurin, C.
May, S. W., *See* Feng, J.
Mayer, B., *See* Gorren, A. C. F.; Werner, E. R.
Mayo, J. W., *See* Mayo, K. H.
Mayo, K. H.
——; Haseman, J.; Young, H. C.; Mayo, J. W.
Structure-function relationships in novel peptide dodecamers with broad-spectrum bactericidal and endotoxin-neutralizing activities, 349:717
Mazat, J.-P., *See* Rossignol, R.
McAbee, D. D.
——; Jiang, X.; Walsh, K. B.
Lactoferrin binding to the rat asialoglycoprotein receptor requires the receptor's lectin properties, 348: 113
McAuley, K. E., *See* Ridge, J. P.
McCabe, K., *See* Dodt, G.
McCarthy, N. E. M.
——; Akhtar, M.
Function of the farnesyl moiety in visual signalling, 347:163
McConkey, G. A., *See* Parker, M. D.
McCormick, C. C.
——; Li, W. P.; Calero, M.
Oxygen tension limits nitric oxide synthesis by activated macrophages, 350:709
McCormick, M. L.
——; Denning, G. M.; Reszka, K. J.; Bilski, P.; Buettner, G. R.; Rasmussen, G. T; Railsback, M. A.; Britigan, B. E.

© 2001 Biochemical Society

Biological effects of menadione photochemistry: effects of menadione on biological systems myy not involve classical oxidant production, 350:797
McDermott, A., *See* Dekker, L. V.
McDonald, F. J., *See* Farr, T. J.
McDowall, A., *See* Stanley, P.
McFadden, G., *See* Nash, P.
McGarry, J. D.
——; Brown, N. F.
Reconstitution of purified, active and malonyl-CoA-sensitive rat liver carnitine palmitoyltransferase I: relationship between membrane environment and malonyl-CoA sensitivity, 349:179
McGinty, A.
——; Foschi, M.; Chang, Y.-W. E.; Han, J.; Dunn, M. J.; Sorokin, A.
Induction of prostaglandin endoperoxide synthase 2 by mitogen-activated protein kinase cascades, 352:419
McGurk, S., *See* Deacon, M. P.
McIntosh, B., *See* Buggy, J. J.
McIver, L., *See* Leadbeater, C.
McKay, R. R.
——; Szymeczek-Seay, C. L.; Lievremont, J.-P.; St. J. Bird, G.; Zitt, C.; Jüngling, E.; Lückhoff, A.; Putney, J. W., Jr.
Cloning and expression of the human transient receptor potential 4 (TRP4) gene: localization and functional expression of human TRP4 and TRP3, 351:735
McKern, N. M., *See* Elleman, T. C.
McKinney, R. A., *See* Leuthäuser, K.
McLaughlin, M., *See* Gardner, R. C.
McLean, M., *See* Pussinen, P. M.
McManus, D. P., *See* Kennedy, M. W.
McMaster, P., *See* Bruce, L. J.
McNair, A.
——; Cereghini, S.; Brand, H.; Smith, T.; Breillat, C.; Gannon, F.
Synergistic activation of the Atlantic salmon hepatocyte nuclear factor (HNF) 1 promoter by the orphan nuclear receptors HNF4 and chicken ovalbumin upstream promoter transcription factor I (COUP-TFI), 352:557
McRobert, L., *See* Parker, M. D.
McRoberts, J. A., *See* Fitzsimmons, T. J.
Méchan, M.-C., *See* Xie, W.
Meda, P., *See* Bosco, D.
Medina, J. F., *See* Andberg, M.
Meergans, T.
——; Hildebrandt, A.-K.; Horak, D.; Haenisch, C.; Wendel, A.
the short prodomain influences caspase-3 activation in HeLa cells, 349:135
Meggio, F.
——; Negro, A.; Sarno, S.; Ruzzene, M.; Bertoli, A.; Sorgato, M. C.; Pinna, L. A.
Bovine prion protein as a modulator of protein kinase CK2, 352:191
Mehlert, A., *See* Lischke, A.
Mei, J., *See* Landström, T. R.
Meighen, E., *See* Ahvazi, B.
Meijer, A. J., *See* van Sluijters, D. A.
Meijers, C., *See* Valdenaire, O.
Meininger, C. J.
——; Marinos, R. S.; Hatakeyama, K.; Martinez-Zaguilan, R.; Rojas, J. D.; Kelly, K. A.; Wu, G.
Impaired nitric oxide production in coronary endothelial cells of the spontaneously diabetic BB rat is due to tetrahydrobiopterin deficiency, 349:353
Melcher, R.
——; Hillebrand, A.; Bahr, U.; Schröder, B.; Karas, M.; Hasilik, A.
Glycosylation-site-selective synthesis of *N*-acetyl-lactosamine repeats in bis-glycosylated human lysozyme, 348:507
Melck, D., *See* Bisogno, T.
Meldal, M., *See* Sanderson, S. J.; Stennicke, H. R.
Mele, J. M., *See* Mannon, P. J.
Melhuish, T., *See* Kassis, S.
Melo, E. O., *See* Thompson, G. M.
Meloche, S., *See* Turgeon, B.
Melvin, D. R., *See* Shewan, A. M.
Menestrina, G., *See* Malovrh, P.
Menon, A. K., *See* Kostova, Z.; Sharma, D. K.
Mercer, J. F. B., *See* Michalczyk, A. A.
Merlini, G., *See* Sebastião, M. P.
Merrett, J. B., *See* Chen, Q. M.
Mertens, K., *See* Kolkman, J. A.
Metcalfe, J. C., *See* Kemp, P. R.; Kirschenlohr, H. L.; Martin, K. M.; Smith, G. A.
Metspalu, A., *See* Hahn, D.
Meyer, D. J., *See* Wilkinson, S. R.
Meyer, M. E., *See* Fuki, I. V.
Mezey, E., *See* Hill, R. M.
Miao, W., *See* Yip-Schneider, M. T.
Michalczyk, A. A.
——; Rieger, J.; Allen, K. J.; Mercer, J. F. B.; Ackland, M. L.
Defective localization of the Wilson disease protein (ATP7B) in the mammary gland of the toxic milk mouse and the effects of copper supplementation, 352:565
Miernyk, J. A., *See* Thelen, J. J.
Miettinen, H. M., *See* Gripentrog, J. M.
Mihai, R.
——; Lai, T.; Schofield, G. J.; Farndon, J. R.
Changes in cytoplasmic calcium determine the secretory response to extracellular cations in human parathyroid cells: a confocal microscopy study using FM1–43 dye, 352:353
Mihalik, S. J., *See* Dodt, G.
Mildaziene, V., *See* Marcinkeviciute, A.
Mile, V., *See* Csala, M.
Millard, T. H.
——; Cullen, P. J.; Banting, G.
Effects of elevated expression of inositol 1,4,5-trisphosphate 3-kinase B on Ca^{2+} homoeostasis in HeLa cells, 352:709
Miller, F. J., *See* Suprynowicz, F. A.
Milligan, G., *See* Drmota, T.
Mills, G. B., *See* Fang, X.; Mao, M.
Mima, S., *See* Kondo, T.
Min, S. W., *See* Park, K. C.
Minabe, Y., *See* Hashii, M.
Minic, Z.
——; Leproust-Lecoester, L.; Laporte, J.; de Kouchkovsky, Y.; Brown, S. C.
Proteins isolated from lucerne roots by affinity chromatography with sugars analogous to Nod factor moieties, 345:255
Mironneau, J., *See* Boittin, F.-X.
Mirshahi, F., *See* Liu, J.
Mirzayans, R., *See* Famulski, K. S.
Missiaen, L., *See* Vanlingen, S.
Mistry, N., *See* Dekker, L. V.
Mitamura, T., *See* Hanada, K.
Mitchelmore, C.
——; Troelsen, J. T.; Spodsberg, N.; Sjöström, H.; Norén, O.
Interaction between the homeodomain proteins Cdx2 and HNF1α mediates expression of the lactase-phlorizin hydrolase gene, 346:529
Mitterdorfer, J., *See* Huber, I.
Miyaishi, O., *See* Hasegawa, T.
Miyasaka, N., *See* Uratani, Y.
Mizushima, T., *See* Kondo, T.
Mizushina, Y.
——; Iida, A.; Ohta, K.; Sugawara, F.; Sakaguchi, K.
Novel triterpenoids inhibit both DNA polymerase and DNA topoisomerase, 350:757
Mochan, E., *See* Thornton, R. D.
Mock, M., *See* Vitale, G.7
Mockridge, J. W., *See* Punn, A.
Modena, P., *See* Galbete, J. L.
Mohrmann, K., *See* Nagelkerken, B.
Molinari, H., *See* Romagnoli, S.
Möller, U., *See* Böer, U.
Momand, J., *See* Wu, H.-H.
Monboisse, J.-C.
——; Rittie, L.; Lamfarraj, H.; Garnotel, R.; Gillery, P.
In vitro glycoxidation alters the interactions between collagens and human polymorphonuclear leucocytes, 350:777
Moncada, S., *See* Orsi, A.
Monnier, J. M., *See* Rogers, R. J.
Monod, M., *See* Mouyna, I.
Montalvetti, A.
——; Peña-Díaz, J.; Hurtado, R.; Ruiz-Pérez, L. M.; González-Pacanowska, D.
Characterization and regulation of *Leishmania major* 3-hydroxy-3-methylglutaryl-CoA reductase, 349:27
Montalvo, L., *See* Dowler, S.
Montecucco, C., *See* Vitale, G.7
Montero, J. C., *See* Díaz-Rodríguez, E.
Montessuit, S., *See* Antonsson, B.
Monti, E.
——; Bassi, M. T.; Papini, N.; Riboni, M.; Manzoni, M.; Venerando, B.; Croci, G.; Preti, A.; Ballabio, A.; Tettamanti, G.; Borsani, G.
Identification and expression of NEU3, a novel human sialidase associated to the plasma membrane, 349:343
Moon, I.-J.
——; Lee, Y.; Kwak, C.-S.; Lee, J.-H.; Choi, K.; Schreiber, A. D.; Park, J.-G.
Target site search and effective inhibition of leukaemic cell growth by a covalently closed multiple antisense oligonucleotide to c-*myb*, 346:295
Moore, G. R., *See* Busch, J. L. H.
Moore, J.
——; Tetley, L.; Devaney, E.
Identification of abundant mRNAs from the third stage larvae of the parasitic nematode, *Ostertagia ostertagi*, 347:763
Moore, K. P., *See* Frost, M. T.
Moore, M., *See* Penning, T. M.
Moosmayer, D., *See* Rippmann, J. F.
Morano, I., *See* Hohaus, A.
Moreau, C., *See* Dewaste, V.
Morel, J.-L., *See* Boittin, F.-X.
Morel, Y.
——; Barouki, R.
The repression of nuclear factor I/CCAAT transcription factor (NFI/CTF) transactivating domain by oxidative stress is mediated by a critical cysteine (Cys-427), 348:235
Moreno, B., *See* Rodrigues, C. O.
Moreno, S. N. J., *See* Marchesini, N.; Rodrigues, C. O.
Moreno-Bueno, G.
——; Calés, C.; Behrens, M. M.; Fernández-Renart, M.

© 2001 Biochemical Society

Isolation and characterization of casein kinase I from *Dictyostelium discoideum*, 349:527
Moretti, P. A. B., *See* Pitson, S. M.
Morgan, L., *See* Wong, E. Y. M.
Mori, N., *See* Furuyama, T.
Morillas, M.
——; Clotet, J.; Rubí, B.; Serra, D.; Ariño, J.; Hegardt, F. G.; Asins, G.
Inhibitor by etomoxir of rat liver carnitine octanoyltransferase is produced through the co-ordinate interaction with two histidine residues, 351:495
Morin, N., *See* Enrique-Tarancón, G.
Morley, D., *See* Rojo-Niersbach, E.
Morrice, N., *See* Dowler, S.; Fleming, Y.; Hastie, C. J.; Lizcano, J. M.
Morris, S. A., *See* Adkins, C. E.
Moskovitz, J., *See* Davis, D. A.
Motohashi, K., *See* Konno, H.
Motojima, M.
——; Ando, T.; Yoshioka, T.
Sp1-like activity mediates angiotensin-II-induced plasminogen-activator inhibitor type-1 *(PAI-1)* gene expression in mesangial cells, 349:435
Motterlini, R., *See* Clark, J. E.
Mottram, J. C., *See* Sanderson, S. J.; Sharma, D. K.
Mounier-Lee, C. E., *See* Feng, J.
Mouyna, I.
——; Monod, M.; Fontaine, T.; Henrissat, B.; Léchenne, B.; Latgé, J.-P.
Identification of the catalytic residues of the first family of $\beta(1-3)$glucanosyltransferases identified in fungi, 347:741
Moynagh, P. N., *See* Brady, K.
Muff, R., *See* Leuthäuser, K.
Mukerji, P., *See* Leonard, A. E.
Mukhin, Y. V.
——; Garnovskaya, M. N.; Collinsworth, G.; Grewal, J. S.; Pendergrass, DeK.; Nagai, T.; Pinckney, S.; Greene, E. L.; Raymond, J. R.
5-Hydroxytryptamine$_{1A}$ receptor/$G_i\beta\gamma$ stimulates mitogen-activated protein kinase via NAD(P)H oxidase and reactive oxygen species upstream of Src in chinese hamster ovary fibroblasts, 347:61
Mukhtarova, L. S., *See* Grechkin, A. N.
Mullapudi, S. R. S.
——; Ali-Osman, F.; Shou, J.; Srivenugopal, K. S.
DNA repair protein O^6-alkylguanine-DNA alkyltransferase is phosphorylated by two-distinct and novel protein kinases in human brain tumour cells, 351:393
Müller, E.-C., *See* Essmann, F.
Müller, J. P.
——; Ozegowski, J.; Vettermann, S.; Swaving, J.; van Wely, K. H. M.; Driessen, A. J. M.
Interaction of *Bacillus subtilis* CsaA with SecA and precursor proteins, 348:367
Müller, M., *See* Renes, J.
Müller, P. K., *See* Kruse, C.
Müller, S., *See* Krause, T.; Lüersen, K.
Müller-Esterl, W., *See* Haan, S.
Muller-Steffner, H., *See* Augustin, A.; Cakir-Kiefer, C.
Muñoz, F. M., *See* Martín, M. E.
Muñoz-Clares, R. A., *See* Velasco-García, R.
Munro, A. W., *See* Leadbeater, C.
Munzer, J. S., *See* Lissitzky, J.-C.
Murakami, H.
——; Nurse, P.
DNA replication and damage checkpoints and meiotic cell cycle controls in the fission and budding yeasts, 349:1
Murakami, M., *See* Nakatani, N.
Murakami, Y., *See* Saito, T.
Murata, M., *See* Iijima, K.
Murata, N.
——; Sato, K.; Kon, J.; Tomura, H.; Yanagita, M.; Kuwabara, A.; Ui, M.; Okajima, F.
Interaction of sphingosine 1-phosphate with plasma components, including lipoproteins, regulates the lipid receptor-mediated actions, 352:809
Murphy, H. C., *See* Burns, S. P.
Murphy, W. J., *See* Crespo, A.
Murray, R. C., *See* Sadlish, H.
Murray, R. Z., *See* Brooks, P.
Mustacich, D.
——; Powis, G.
Thioredoxin reductase, 346:1
Mutter, T.
——; Dolinsky, V. W.; Ma, B. J.; Taylor, W. A.; Hatch, G. M.
Thyroxine regulation of monolysocardiolipin acyltransferase activity in rat heart, 346:403

Nadal, A., *See* Mascaró, C.
Nadler, J. L., *See* Wen, Y.
Nagai, R., *See* Matsumoto, K.
Nagai, T., *See* Mukhin, Y. V.
Nagaraj, V.
——; Norris, D.
Yeast cell-free system that catalyses joint-molecule formation in a Rad51p- and Rad52p-dependent fashion, 347:363
Nagarajan, R. P.
——; Chen, F.; Li, W.; Vig, E.; Harrington, M. A.; Nakshatri, H.; Chen, Y.
Repression of transforming-growth-factor-β-mediated transcription by nuclear factor κB, 348:591
——; Chen, Y.
Structural basis for the functional difference between Smad2 and Smad3 in FAST-2 (forkhead activin signal transducer-2-)-meditaed transcription, 350:253
Nagata, K., *See* Ohta, S.
Nagelkerken, B.
——; van Anken, E.; van Raak, M.; Gerez, L.; Mohrmann, K.; van Uden, N.; Holthuizen, J.; Pelkmans, L.; van der Sluijs, P.
Rabaptin4, a novel effector of the small GRPase rab4a, is recruited to perinuclear recycling vesicles, 346:593
Nahoum, V.
——; Roux, G.; Anton, V.; Rougé, P.; Puigserver, A.; Bischoff, H.; Henrissat, B.; Payan, F.
Crystal structures of human pancreatic α-amylase in complex with carbohydrate and proteinaceous inhibitors, 346:201
Naito, M.
——; Fukuda, T.; Sekiguchi, K.; Yamada, T.
The domains of human fibronectin mediating the binding of α antigen, the most immunopotent antigen of mycobacteria that induces protective immunity against mycobacterial infection, 347:725
Nakagawa, Y., *See* Nomura, K.
Nakai, M., *See* Chijiwa, T.
Nakajima, A.
——; Kataoka, K.; Takata, Y.; Huh, N.-h.
Cathepsin-6, a novel cysteine proteinase showing homology with and co-localized expression with cathepsin J/P in the labyrinthine layer of mouse placenta, 349:689
Nakajima, T., *See* Nakamura, M.
Nakajima, Y., *See* Zhang, Z.-Z.
Nakajin, S., *See* Sciotti, M. A.
Nakajou, K., *See* Watanabe, H.
Nakamoto, R. K., *See* Kuo, P. H.
Nakamura, M.
——; Nakajima, T.; Ohba, Y.; Yamauchi, S.; Lee, B. R.; Ichishima, E.
Identification of copper ligands in *Aspergillus oryzae* tyrosinase by site-directed mutagenesis, 350:537
Nakano, I., *See* Furuyama, T.
Nakashima, K.-i., *See* Chijiwa, T.
Nakata, M., *See* Zhao, L.-X.
Nakatani, N.
——; Uozumi, N.; Kume, K.; Murakami, M.; Kudo, I.; Shimizu, T.
Role of cytosolic phospholipase A_2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells, 352:311
Nakayama, H., *See* Kong, W.
Nakayama, K., *See* Hiraoka, B. Y.; Kong, W.
Nakazawa, T., *See* Furuyama, T.
Nakshatri, H., *See* Nagarajan, R. P.
Nambiar, A., *See* Swamynathan, S. K.
Napolitani, G., *See* Vitale, G.7
Narain, Y., *See* Furlong, R. A.
Narayanan, N., *See* Lee, S. H.
Nash, G. B., *See* Bruce, L. J.
Nash, P.
——; Barry, M.; Seet, B. T.; Veugelers, K.; Hota, S.; Heger, J.; Hodgkinson, C.; Graham, K.; Jackson, R. J.; McFadden, G.
Post-translational modification of the myxoma-virus anti-inflammatory serpin SERP-1 by a virally encoded sialytransferase, 347:375
Natori, M., *See* Shimoyama, Y.
Nawano, M., *See* Inukai, K.
Nedachi, T., *See* Ariga, M.
Nedergaard, J., *See* Bengtsson, T.
Negash, S.
——; Yao, Q.; Sun, H.; Li, J.; Bigelow, D. J.; Squier, T. C.
Phospholamban remains associated with the Ca^{2+}- and Mg^{2+}-dependent ATPase following phosphorylation by cAMP-dependent protein kinase, 351:195
Negishi, M., *See* Fujita, H.; Honkakoski, P.
Negre, O., *See* Ferret, P. J.
Negro, A., *See* Meggio, F.
Nelson, B. D., *See* Hodny, Z.; Luciakova, K.
Neo, S. Y., *See* Fong, C. W.
Nerinckx, W., *See* Ntarima, P.
Neubauer, K., *See* Dudás, J.
Neuschäferf-Rube, F., *See* Böer, U.
Neville, W., *See* Ward, R. V.
Newbold, R. J., *See* Hanlon, M. R.
Newcomb, F. M., *See* Davis, D. A.
Newton, D. A., *See* Thames, E. L.
Newton, G. H., *See* Levett, L. J.
Ng, C. F., *See* Zhang, Y.-Y.
Nganga, A.
——; Bruneau, N.; Sbarra, V.; Lombardo, D.; Le Petit-Thevenin, J.
Control of pancreatic bile-salt-dependent-lipase secretion by the glucose-regulated protein of 94 kDa (Grp94), 352:865
Nguyen, V., *See* He, Q.-Y.
Nguyen, V.-A. T.

© 2001 Biochemical Society

——; Chen, J.; Hong, F.; Ishac, E. J. N.; Gao, B.
Inteferons activate the p42/44 mitogen-activated protein kinase and JAK-STAT (Janus kinase-signal transducer and activator transcription factor) signalling pathways in hepatocytes: differential regulation by acute ehtanol via a protein kinase C-dependent mechanism, 349:427
Nicholls, P., *See* Svistunenko, D. A.
Nicholson, G. M., *See* Torres, A. M.
Nick, H. S., *See* Rogers, R. J.
Nicola, N. A., *See* Hammacher, A.
Nicolaï, M., *See* Chamoy, L.
Nidetzky, B., *See* Griebler, R.
——; Eis, C.; Albert, M.
Role of non-covalent enzyme-substrate interactions in the reaction catalysed by cellobiose phosphorylase from *Cellulomonas uda*, 351:649
Nieduszynski, I. A., *See* Lauder, R. M.
Niewiarowski, S., *See* Calvete, J. J.
Nihikimi, M., *See* Kashiba, M.
Nijhuis, E., *See* Versteeg, H. H.
Nilsson, J., *See* Kannius-Janson, M.
——; Grahn, B.; Heby, O.
Antizyme inhibitor is rapidly induced in growth-stimulated mouse fibroblasts and releases ornithine decarboxylase from antizyme suppression, 346:699
——; Gritli-Linde, A.; Heby, O.
Skin fibroblasts from spermine synthase-deficient hemizygous gyro male *(Gy/Y)* mice overproduce spermidine and exhibit increased resistance to oxidative stress but decreased resistance to UV irradiation, 352:381
Nirasawa, S., *See* Zhang, Z.-Z.
Nishijima, M., *See* Hanada, K.
Njålsson, R.
——; Carlsson, K.; Olin, B.; Carlsson, B.; Whitbread, L.; Polekhina, G.; Parker, M. W.; Norgren, S.; Mannervik, B.; Board, P. G.; Larsson, A.
Kinetic properties of missense mutations in patients with glutathione synthetase deficiency, 349:275
Noble, M. A., *See* Leadbeater, C.
——; Gul, S.; Verma, C. S.; Brocklehurst, K.
Ionization characteristics and chemical influences of aspartic acid residue 158 of papain and caricain determined by structure-related kinetic and computational techniques: multiple electrostatic modulators of active-centre chemistry, 351:723
Nobuhisa, I., *See* Chijiwa, T.
Nomura, K.
——; Imai, H.; Koumura, T.; Kobayashi, T.; Nakagawa, Y.
Mitochondrial phospholipid hydroperoxide glutathione peroxidase inhibits the release of cytochrome *c* from mitochondria by suppressing the peroxidation of cardiolipin in hypoglycaemia-induced apoptosis, 351:183
Nomura, M.
——; Tsujimura, A.; Begum, N. A.; Matsumoto, M.; Wabiko, H.; Toyoshima, K.; Seya, T.
Identification and characterization of a silencer regulatory element in the 3′-flanking region of the murine CD46 gene, 351:353
Norén, O., *See* Mitchelmore, C.
Nores, R., *See* Panzetta-Dutari, G. M.
Norgren, S., *See* Njålsson, R.
Norlin, M., *See* Postlind, H.
Norris, D., *See* Nagaraj, V.
Noy, N.
——; Retinoid-binding proteins: mediators of retinoid action, 348: 481
Ntarima, P.
——; Nerinckx, W.; Klarskov, K.; Devreese, B.; Bhat, M. K.; van Beeumen, J.; Claeyssens, M.
Epoxyalkyl glycosides of D-xylose and xylo-oligosaccharides are active-site markers of xylanases from glycoside hydrolase family 11, not from family 10, 347:865
Nunan, K., *See* Grusovin, J.
Núñez de Castro, I., *See* Gómez-Fabre, P. M.; Lobo, C.
Nurse, P., *See* Murakami, H.
Nuttall, S. D.
——; Deutschel, S. E.; Irving, R. A.; Serrano-Gomicia, J. A.; Dyall-Smith, M. L.
The ShBle resistance determinant from *Streptoalloteichus hindustanus* is expressed in *Haloferax volcanii* and confers resistance to bleomycin, 346:251

O, Karmin, *See* Wang, G.
Oatey, P. B., *See* Fletcher, L. M.
O'Brien, W. J., *See* Chitambar, C. R.
Oda, K., *See* Fukushi-Irié, M.
Oda, N., *See* Chijiwa, T.
Oettl, K., *See* Bergt, C.
Offner, G. D., *See* Liu, B.
Ogawa, T., *See* Chijiwa, T.
Ogawa, Y., *See* Yamada, A.
Ogier-Denis, E.
——; Bauvy, C.; Cluzeaud, F.; Vandewalle, A.; Codogno, P.
Glucose persistence on high-mannose oligosaccharides selectively inhibits the macroautophagic sequestration of N-linked glycoproteins, 345:459
Ogihara, T., *See* Inukai, K.
Ogle, G., *See* Bruce, L. J.
Oh, E.-S., *See* Han, I.
Oh, J.-E.
——; Lee, K.-H.
Characterization of the unique function of a reduced amide bond in a cytolytic peptide that acts on phospholipid membranes, 352:659
Ohba, Y., *See* Nakamura, M.
Ohkido, I., *See* Saito, T.
Ohlendieck, K., *See* Zorzato, F.
Ohmori, T.
——; Yatomi, Y.; Asazuma, N.; Satoh, K.; Ozaki, Y.
Involvement of proline-rich tyrosine kinase 2 in platelet activation: tyrosine phosphorylation mostly dependent on αIIbβ3 integrin and protein kinase C, translocation to the cytoskeleton and association with Shc through Grb2, 347:561
Ohno, M., *See* Chijiwa, T.
Oho, Y., *See* Zhang, S.
Ohta, H., *See* Kimura, T.
Ohta, K., *See* Mizushina, Y.
Ohta, S.
——; Takeuchi, M.; Deguchi, M.; Tsuji, T.; Gahara, Y., Nagata, K.
A novel transcriptional factor with Ser/Thr kinase activity involved in the transforming growth factor (TGF)-β signalling pathway, 350:395
Ohta, T.
——; Ishikura, S.; Shintani, S.; Usami, N.; Hara, A.
Kinetic alteration of a human dihydrodiol/3α-hydroxysteroid dehydrogenase isoenzyme, AKR1C4, by replacement of histidine-216 with tyrosine or phenylalanine, 352:685
Oike, M., *See* Takeuchi, H.
Oka, J., *See* Kashiba, M.
Oka, T., *See* Adachi, K.
Oka, Y., *See* Inukai, K.
Okajima, F., *See* Kimura, T.; Murata, N.
Okamoto, H., *See* Saito, T.
Okamoto, R., *See* Higuchi, K.
Okamoto, T., *See* Kameoka, M.
Öklü, R.
——; Hesketh, R.
The latent transforming growth factor β binding protein (LTBP) family, 352:601
Okoniewska, M.
——; Tanaka, T.; Yada, R. Y.
The pepsin residue glycine-76 contributes to active-site loop flexibility and participates in catalysis, 349:169
Oldehinkel, E., *See* Verzijl, N.
Oldfield, E., *See* Rodrigues, C. O.
Oleinikov, A. V.
——; Zhao, J.; Makker, S. P.
Cytosolic adaptor protein Dab2 is an intracellular ligand of endocytic receptor gp600/megalin5, 347:613
Olianas, A., *See* Corda, M.
Olin, B., *See* Njålsson, R.
Oliver, C., *See* Liu, J.
Olivier, E.
——; Soury, E.; Ruminy, P.; Husson, A.; Parmentier, F.; Daveau, M.; Salier, J.-P.
Fetuin-B, a second member of the fetuin family in mammals, 350:589
Olsen, A., *See* LaPlante, J. M.Lu, X.
Olsen, J.
——; Lefebvre, O.; Fritsch, C.; Troelsen, J. T.; Orian-Rousseau, V.; Kedinger, M.; Simon-Assmann, P.
Involvement of activator protein 1 complexes in the epithelium-specific activation of the laminin γ2-chain gene promoter by hepatocyte growth factor (scatter factor), 347:407
Olsnes, S., *See* Kolpakova, E.
Olson, F. J., *See* Karlsson, N. G.
O'Luanaigh, N., *See* Way, G.
Omata, W.
——; Shibata, H.; Li, L.; Takata, K.; Kojima, I.
Actin filaments play a critical role in insulin-induced exocytotic recruitment but not in endocytosis of GLUT4 in isolated rat adipocytes, 346:321
Omura, S., *See* Fukushi-Irié, M.
Onishi, Y., *See* Inukai, K.
Ono, H., *See* Inukai, K.
Oppenheim, F. G., *See* Liu, B.
Oppong, S. Y., *See* Woodman, Z. L.
O'Rahilly, S., *See* Whitehead, J. P.
Orchiston, E. A., *See* Leslie, N. R.
O'Reilly, D. R., *See* Takeuchi, H.
Oren, Z., *See* Hetru, C.
Orian-Rousseau, V., *See* Olsen, J.
Orlando, R., *See* Kester, H. C. M.
Orlean, P., *See* Kostova, Z.
O'Rourke, F., *See* LaPlante, J. M.Lu, X.
Orsi, A.
——; Beltrán, B.; Clement, E.; Hallén, K.; Feelisch, M.; Moncada, S.
Continuous exposure to high concentrations of nitric oxide leads to persistent inhibition of oxygen consumption by J774 cells as well as extraction of oxygen by the extracellular medium, 346:407
Ota, K., *See* Kameoka, M.
Otagiri, M., *See* Watanabe, H.
Othman, A., *See* Bruce, L. J.
Otto, A., *See* Essmann, F.
Oudart, H., *See* Taclot, T.

© 2001 Biochemical Society

Ouwens, D. M., *See* Till, M.
Overath, P., *See* Lischke, A.
Owen, D. E., *See* Ward, R. V.
Owen, M. R.
——; Doran, E.; Halestrap, A. P.
Evidence that metformin exerts its anti-diabetic effects through inhibition of complex 1 of the mitochondrial respiratory chain, 348: 607
Ozaki, Y., *See* Ohmori, T.
Ozawa, H., *See* Fukushi-Irié, M.
Ozegowski, J., *See* Müller, J. P.

Pachebat, J. A., *See* Gunaratne, R. S.
Pacheco, E. A., *See* Thompson, G. M.
Pageaux, J.-F., *See* Luquain, C.
Pagès, J.-M., *See* Bolla, J. M.; Chevalier, J.
Paglionico, I., *See* Santamaria, R.
Paik, W. K., *See* Hyun, Y.-L.; Lim, I. K.
Pajor, A. M.
——; Kahn, E. S.; Gangula, R.
Role of cationic amino acids in the Na^+/dicarboxylate co-transporter NaDC-1, 350:677
Pajunen, A., *See* Veress, I.
Pak, Y. K., *See* Han, C.-Y.
Palacín, M., *See* Enrique-Tarancón, G.; Zorzano, A.
Palackal, N., *See* Penning, T. M.
Palaparti, A.
——; Li, Y.; Anand-Srivastava, M. B.
Inhibition of atrial natriuretic peptide (ANP) C receptor expression by antisense oligodeoxynucleotides in A10 vascular smooth-muscle cells is associated with attenuation of ANP-C-receptor-mediated inhibition of adenylyl cyclase, 346:313
Pale-Grosdemange, C., *See* Charon, L.
Palfrey, H. C., *See* Wert, M. M.
Palmer, R., *See* Bruce, L. J.
Pandiella, A., *See* Díaz-Rodríguez, E.
Pandol, S. J., *See* Fitzsimmons, T. J.
Pani, G.
——; Colavitti, R.; Borrello, S.; Galeotti, T.
Endogenous oxygen radicals modulate protein tyrosine phosphorylation and JNK-1 activation in lectin-stimulated thymocytes, 347:173
Panova, T. B., *See* Peter, G. J.
Panzetta-Dutari, G. M.
——; Koritschoner, N. P.; Bocco, J. L.; Nores, R.; Dumur, C. I.; Patrito, L. C.
Transcription of genes encoding pregnancy-specific glycoproteins is regulated by negative promoter-selective elements, 350:511
Paoli, P.
——; Camici, G.; Manao, G.; Giannoni, E.; Ramponi, G.
Acylphosphatase possesses nucleoside triphosphatase and nucleoside diphosphatase activities, 349:43
Paolini, S., *See* Loebel, D.
Papini, N., *See* Monti, E.
Papp, B., *See* Lacabaratz-Porret, C.
Pappin, D. J. C., *See* Reeves, E. P.
Parasivam, G., *See* Jolliffe, C. N.
Parat, F., *See* Lissitzky, J.-C.
Parekh, D. B.
——; Katso, R. M. T.; Leslie, N. R.; Downes, C. P.; Procyk, K. J.; Waterfield, M. D.; Parker, P. J.
β1-Integrin and PTEN control the phosphorylation of protein kinase C, 352:425
Pařenicová, L.
——; Benen, J. A. E.; Kester, H. C. M.; Visser, J.
*pga*A and *pga*B encode two constitutively expressed endopolygalacturonases of *Aspergillus niger*, 345:637
Pariat, M.
——; Salvat, C.; Bébien, M.; Brockly, F.; Altieri, E.; Carillo, S.; Jariel-Encontre, I.; Piechaczyk, M.
The sensitivity of c-Jun and c-Fos proteins to calpains depends on conformational determinants of the monomers and not on formation of dimers, 345:129
Park, D. E., *See* Kim, S. S.
Park, D. Y., *See* Han, S. Y.
Park, J.-G., *See* Moon, I.-J.
Park, K. C.
——; Choi, E. J.; Min, S. W.; Chung, S. S.; Kim, H.; Suzuki, T.; Tanaka, K.; Chung, C. H.
Tissue-specificity, functional characterization and subcellular localization of a rat ubiquitin-specific processing protease, UBP109, whose mRNA expression is developmentally regulated, 349: 443
Park, K.-S., *See* Lee, W.-J.
Park, M. H., *See* Lee, C. H.
Park, S. D., *See* Han, S. Y.
Park, S. H., *See* Hyun, Y.-L.
Park, S. K., *See* Kim, I.
Park, S. S., *See* Cho, S. Y.
Park, S.-Y., *See* Han, C.-Y.
Park, T. J., *See* Lim, I. K.
Park, Y.-M., *See* Yoo, J.
Parker, A.
——; Engel, P. C.
Preliminary evidence for the existence of specific functional assemblies between enzymes of the β-oxidation pathway and the respiratory chain, 345:429
Parker, M. D.
——; Hyde, R. J.; Yao, S. Y. M.; McRobert, L.; Cass, C. E.; Cass, J. D.; Young, J. D.; McConkey, G. A.; Baldwin, S. A.
Identification of a nucleoside/nucleobase transporter from *Plasmodium falciparum*, a novel target for anti-malarial chemotherapy, 349:67
Parker, M. W., *See* Allocati, N.; Njålsson, R.
Parker, P. J., *See* Hughes, W. E.; Parekh, D. B.
Parker-Barnes, J. M., *See* Leonard, A. E.
Parmar, P. K., *See* Hill, R. M.
Parmentier, F., *See* Olivier, E.
Parniak, M. A., *See* Sluis-Cremer, N.
Parodi, A. J.
——; Role of N-oligosaccharide endoplasmic reticulum processing reactions in glycoprotein folding and degradation, 348:1
Parrington, J., *See* Jones, K. T.
Parys, J. B., *See* Vanlingen, S.
Pasqualini, E.
——; Caillol, N.; Valette, A.; Lloubes, R.; Verine, A.; Lombardo, D.
Phosphorylation of the rat pancreatic bile-salt-dependent lipase by casein kinase II is essential for secretion, 345:121
Pass, I., *See* Leslie, N. R.
Patel, B. P., *See* Sian, A. K.
Patel, D. D.
——; Knight, B. L.; Soutar, A. K.; Gibbons, G. F.; Wade, D. P.
The effect of peroxisome-proliferator-activated receptor-α on the activity of the cholesterol 7α-hydroxylase gene, 351:747
Patel, S.
——; Churchill, G. C.; Galione, A.
Unique kinetics of nicotinic acid-adenine dinucleotide phosphate (NAADP) binding enhance the sensitivity of NAADP receptors for their ligand, 352:725
Patel, Y., *See* Dong, Z.; Rahman, S.
Paterson, A., *See* Fleming, Y.
Paterson, A. J., *See* Su, K.
Paterson, H. F., *See* Takeuchi, H.
Paterson, M. C., *See* Famulski, K. S.; Shi, Y.
Paton, M. G.
——; Karunaratne, S. H. P. P.; Giakoumaki, E.; Roberts, N.; Hemingway, J.
Quantitative analysis of gene amplification in insecticide-resistant *Culex* mosquitoes, 346:17
Patrinou-Georgoula, M., *See* Kafasla, P.
Patrito, L. C., *See* Panzetta-Dutari, G. M.
Patton, J. R., *See* Chen, J.
Paukku, K.
——; Valgeirsdóttir, S.; Saharinen, P.; Bergman, M.; Heldin, C.-H.; Silvennoinen, O.
Platelet-derived growth factor (PDGF)-induced activation of signal transducer and activator of transcription (Stat) 5 is mediated by PDGF β-receptor and is not dependent on c-Src, Fyn, Jak1 or Jak2 kinases, 345:759
Pauli, I., *See* van de Loo, J.-W. H. P.
Pavlov, P. F., *See* Ståhl, A.
Payan, F., *See* Nahoum, V.
Payrastre, B., *See* Giuriato, S.
Pearson, J. F., *See* Hill, R. M.
Pease, E. A., *See* Thornton, R. D.
Pegg, A. E., *See* Mackintosh, C. A.; Xu-Welliver, M.
Pelkmans, L., *See* Nagelkerken, B.
Pellegrini, M. G., *See* Corda, M.
Pelosi, P., *See* Loebel, D.
Peña-Díaz, J., *See* Montalvetti, A.
Pendergrass, DeK., *See* Mukhin, Y. V.
Penn, L. Z., *See* Fang, X.
Penning, T. M.
——; Burczynski, M. E.; Jez, J. M.; Hung, C.-F.; Lin, H.-K.; Ma, H.; Moore, M.; Palackal, N.; Ratnam, K.
Human 3α-hydroxysteroid dehydrogenase isoforms (AKR1C1–AKR1C4) of the aldo-keto reductase superfamily: functional plasticity and tissue distribution reveals roles in the inactivation and formation of male and female sex hormones, 351:67
Peppelenbosch, M. P., *See* Versteeg, H. H.
Peressini, E., *See* Galbete, J. L.
Perez, A., *See* Price-Schiavi, S. A.
Pérez-Pérez, M.-J., *See* Balzarini, J.
Pérez-Sala, D., *See* Klatt, P.
Perkins, S. J., *See* Boehm, M. K.
Permanne, B., *See* Tokuda, T.
Perrais, M., *See* Van Seuningen, I.
Perrin, P., *See* Greco, S.
Persson, L., *See* Chabanon, H.; Tung, H.-s.
Peter, G. J.
——; Panova, T. B.; Christie, G. R.; Taylor, P. M.
Cysteine residues in the C-terminus of the neutral- and basic-amino-acid transporter heavy-chain subunit contribute to functional properties of the system $b^{0,+}$-type amino acid transporter, 351:677
Pevzner, V.
——; Kraft, R.; Kostka, S.; Lipp, M.
Phosphorylation of Oct-2 at sites located in the POU domain induces

© 2001 Biochemical Society

differential down-regulation of Oct-2 DNA-binding ability, 347:29
Peyrollier, K.
——; Hajduch, E.; Blair, A. S.; Hyde, R.; Hundal, H. S.
L-Leucine availability regulates phosphatidylinositol 3-kinase, p70 S6 kinase and glycogen synthase kinase-3 activity in L6 muscle cells: evidence for the involvement of the mammalian target of rapamycin (mTOR) pathway in the L-leucine-induced up-regulation of System A amino acid transport, 350:361
——; Hajduch, E.; Gray, A.; Litherland, G. J.; Prescott, A. R.; Leslie, N. R.; Hundal, H. S.
A role for the actin cytoskeleton in the hormonal and growth-factor-mediated activation of protein kinase B, 352:617
Pfeiffer, T., *See* Kruse, C.
Pfeilschifter, J., *See* Frank, S.
Pfizenmaier, K., *See* Rippmann, J. F.
Pfleiderer, W., *See* Kotsonis, P.
Phillips, M. A.
——; Qin, Q.; Rice, R. H.
Identification of an involucrin promoter transcriptional response element with activity restricted to keratinocytes, 348:45
Picard, P., *See* Bertola, F.
Piechaczyk, M., *See* Pariat, M.
Pierce, M., *See* Zhang, W.
Pierotti, A. R., *See* Winter, A. G.
Pietrangelo, A., *See* Cairo, G.
Pietropaolo, C., *See* Festa, M.
Piette, J., *See* Legrand-Poels, S.
Pigeon, H., *See* Sheehan, J. K.
Pignatti, C., *See* Stefanelli, C.
Pigny, P., *See* Van Seuningen, I.
Pihlajaniemi, T., *See* Wagner, K.
Pike, A. D., *See* Gordon, E. H. J.
Pilquil, C. S., *See* Zhang, Q.-X.
Pinckney, S., *See* Mukhin, Y. V.
Pineda Molina, E., *See* Klatt, P.
Pinelli, A., *See* De Fabiani, E.
Pinna, L. A., *See* Brunati, A. M.; Meggio, F.
Pitson, S. M.
——; D'Andreaa, R. J.; Vandeleur, L.; Moretti, P. A. B.; Xia, P.; Gamble, J. R.; Vadas, M. A.; Wattenberg, B. W.
Human sphingosine kinase: purification, molecular cloning and characterization of the native and recombinant enzymes, 350:429
Pitt, M., *See* Scott, D. J.
Plantavid, M., *See* Giuriato, S.
Plaxton, W. C., *See* Turner, W. L.
Plesner, I. W., *See* Lohse, A.
Plets, E., *See* van de Loo, J.-W. H. P.
Plo, I.
——; Lautier, D.; Levade, T.; Sekouri, H.; Jaffrézou, J.-P.; Laurent, G.; Bettaïeb, A.
Phosphatidylcholine-specific phospholipase C and phospholipase D are respectively implicated in mitogen-activated protein kinase and nuclear factor κB activation in tumour-necrosis-factor-α-treated immature acute-myeloid-leukaemia cells, 351:459
Ploug, T., *See* Langfort, J.
Podda, M., *See* Frank, S.
Poderoso, J. J., *See* Schöpfer, F.
Podlesek, Z., *See* Malovrh, P.
Poetsch, A., *See* Seelert, H.
Polanowska-Grabowska, R., *See* Suttitanamongkol, S.
Polekhina, G., *See* Allocati, N.; Njålsson, R.
Polette, A., *See* Croset, M.
Pollock, K. G. J., *See* Sanderson, S. J.
Polly, P., *See* Toell, A.
Polverini, P., *See* Qabar, A. N.
Pomilès, P., *See* Harper, B. D.
Ponting, C. P.
——; Proteins of the endoplasmic-reticulum-associated degradation pathway: domain detection and function prediction, 351:527
Popov, M., *See* Li, J.
Porat, M., *See* Khamaisi, M.
Porchet, N., *See* Van Seuningen, I.
Portaro, F. C. V.
——; Santos, A. B. F.; Cezari, M. H. S.; Juliano, M. A.; Juliano, L.; Carmona, E.
Probing the specificity of cysteine proteinases at subsites remote from the active site: analysis of P_4, P_3, P_2' and P_3' variations in extended substrates, 347:123
Porter, A. C., *See* Sood, R.
Pöschl, E., *See* Wagner, K.
Postlind, H.
——; Hosseinpour, F.; Norlin, M.; Wikvall, K.
27-Oxygenation of C_{27}-sterols and 25-hydroxylation of vitamin D_3 in kidney: cloning, structure and expression of pig kidney CYP27A, 347:349
Poteser, M., *See* Hohaus, A.
Potter, B. V. L., *See* Adkins, C. E.
Pouillon, V., *See* Dewaste, V.
Powers, E. A.
——; Thompson, D. P.; Garner-Hamrick, P. A.; He, W.; Yem, A. W.; Bannow, C. A.; Staples, D. J.; Waszak, G. A.; Smith, C. W.; Deibel, M. R., Jr.; Fisher, C.
Identification of a C-terminal cdc25 sequence required for promotion of germinal vesicle breakdown, 347:653
Powis, G., *See* Mustacich, D.
Prat, A., *See* Hospital, V.
Precigoux, G., *See* Bertola, F.
Prentki, M., *See* Dyck, J. R. B.
Prescott, A. R., *See* Peyrollier, K.
Presek, P., *See* Graness, A.
Preti, A., *See* Monti, E.
Price, N. C., *See* Leadbeater, C.
Price-Schiavi, S. A.
——; Perez, A.; Barco, R.; Carraway, K. L.
Cloning and characterization of the 5′ flanking region of the sialomucin complex rat *Muc4* gene: promoter activity in cultured cells, 349:641
Prigent, S. A., *See* Warner, A. J.
Prijatelj, P.
——; Čopič, A.; Križaj, I.; Gubenšek, F.; Pungerčar, J.
Charge reversal of ammodytoxin A, a phospholipase A_2-tocin, does not abolish its neurotoxicity, 352:251
Pritchard, D. G., *See* Baker, J. R.
Prockop, D. J., *See* Yuan, C. M.
Procyk, K. J., *See* Parekh, D. B.
Promdonkoy, B.
——; Ellar, D. J.
Membrane pore architecture of a cytolytic toxin from *Bacillus thuringiensis*, 350:275
Proud, C. G., *See* Kleijn, M.
Prydz, K., *See* Halvorsen, B.
Pryor, P. R.
——; Liu, S. C. H.; Clark, A. E.; Yang, J.; Holman, G. D.; Tosh, D.
Chronic insulin effects on insulin signalling and GLUT4 endocytosis are reversed by metformin, 348:83
Psoma, A., *See* Blomquist, A.
Puigserver, A., *See* Nahoum, V.
Pulkka, A., *See* Veress, I.
Pungerčar, J., *See* Prijatelj, P.
Punn, A.
——; Mockridge, J. W.; Farooqui, S.; Marber, M. S.; Heads, R. J.
Sustained activation of p42/p44 mitogen-activated protein kinase during recovery fromsimulated ischaemia mediates adaptive cytoprotection in cardiomyocytes, 350:891
Purdue, P. E., *See* Knott, T. G.
Pusateri, M. E., *See* Ruhl, D. D.
Püschel, G. P., *See* Böer, U.
Pussinen, P. J.
——; Karten, B.; Wintersperger, A.; Reicher, H.; McLean, M.; Malle, E.; Sattler, W.
The human breast carcinoma cell line HBL-100 acquires exogenous cholesterol from high-density lipoprotein via CLA-1 (CD-36 and LIMPII analogous 1)-mediated selective cholesteryl ester uptake, 349:559
Putney, J. W., Jr., *See* McKay, R. R.
Pyerin, W., *See* Thullner, S.
Pynaert, G. N., *See* Versteeg, H. H.
Pyne, N. J., *See* Pyne, S.
Pyne, S.
——; Pyne, N. J.
Sphingosine 1-phosphate signalling in mammalian cells, 349:385

Qabar, A. N.
——; Bullock, J.; Matej, L.; Polverini, P.
Expression and characterization of novel thrombospondin 1 type I repeat fusion proteins, 346:147
Qian, M., *See* Yan, X.
Qian, Z., *See* Tang, L.
Qin, Q., *See* Phillips, M. A.
Quennedey, B., *See* Chamoy, L.
Quigley, J. P., *See* Swarnakar, S.
Quijada, L., *See* Soto, M.
Quilliam, L. A., *See* Sood, R.
Quilty, J., *See* Li, J.

Race, V., *See* Santamaria, R.
Rachmilewitz, J., *See* Riely, G. J.
Rachubinski, R. A., *See* Szilard, R. K.
Raclot, T.
——; Oudart, H.
Net release of individual fatty acids from white adipose tissue during lipolysis *in vitro*: evidence for selective fatty acid re-uptake, 348: 129
Raddatz, D., *See* Dudás, J.
Radi, R., *See* Schöpfer, F.
Radmark, O., *See* Zhang, Y.-Y.
Raghothama, S., *See* Abou Hachem, M.
Ragona, L., *See* Romagnoli, S.
Rahman, S.
——; Flynn, G.; Aitken, A.; Patel, Y.; Hussain, F.; Lu, X.; Loftus, J. C.; French, D.; Wijelath, E.; Strand, K.; Savidge, G. F.
Differential recognition of snake venom proteins expressing specific Arg-Gly-Asp (RGD) sequence motifs by wild-type and variant integrin $\alpha_{IIb}\beta_3$: further evidence for distinct sites of RGD ligand recognition exhibiting negative allostery, 345:701
Raiborg, C., *See* Fengsrud, M.
Railsback, M. A., *See* McCormick, M. L.
Raivio, K. O., *See* Levonen, A.-L.
Raj, P. A.
——; Antonyraj, K. J.; Karunakaran, T.
Large-scale synthesis and functional elements for the antimicrobial activity of defensins, 347:633
Ramadori, G., *See* Dudás, J.
Ramjeesingh, M., *See* Ahmed, N.
Ramos, P., *See* Klatt, P.

© 2001 Biochemical Society

Ramponi, G., *See* Paoli, P.
Rancour, D. M., *See* Kostova, Z.
Randall, D. D., *See* Thelen, J. J.
Ranganathan, S., *See* Vanguri, V. K.
Rankin, J., *See* Furlong, R. A.
——; Wyttenbach, A.; Rubinsztein, D. C.
Intracellular green fluorescent protein-polyalanine aggregates are associated with cell death, 348:15
Rantanen, A., *See* Di Liegro, C. M.
Rasmussen, G. T., *See* McCormick, M. L.
Rasnick, D.
——; Auto-catalysed progression of aneuploidy explains the Hayflick limit of cultured cells, carcinogen-induced tumours in mice, and the age distribution of human cancer, 348:497
Rathbone, D. A., *See* Walker, E. H.
Ratnam, K., *See* Penning, T. M.
Ravanti, L., *See* Laine, P.
Rawsthorne, S., *See* Fox, S. R.; Johnson, P. E.
Rayment, S. A., *See* Liu, B.
Raymond, J. R., *See* Mukhin, Y. V.
Razzaque, M. A., *See* Lim, C. K.
Realini, C., *See* Rechsteiner, M.
Réat, V., *See* Dunn, R. V.
Rechsteiner, M.
——; Realini, C.; Ustrell, V.
The proteasome activator 11 S REG (PA28) and Class I antigen presentation, 345:1
Rechsteiner, M. C., *See* Brooks, P.
Reddel, R. R., *See* Jellinek, D. A.
Reddy, H., *See* Davies, S. P.
Reddy, M. C. M.
——; Majumdar, S.; Harris, E. D.
Evidence for a Menkes-like protein wtih a nuclear targeting sequence, 350:855
Reddy, S.
——; Jones, A. D.; Cross, C. E.; Wong, P.S.-Y.; van der Vliet, A.
Inactivation of creatine kinase by S-glutathionylation of the active-site cysteine residue, 347:821
Redeker, V., *See* Héricourt, F.
Redondo, C.
——; Damas, A. M.; Saraiva, M. J. M.
Designing transthyretin mutants affecting tetrameric structure: implications in amyloidogenicity, 348:167
Rees, H. H., *See* Takeuchi, H.
Rees, S. G.
——; Flannery, C. R.; Little, C. B.; Hughes, C. E.; Caterson, B.; Dent, C. M.
Catabolism of aggrecan, decorin and biglycan in tendon, 350:181
Reeves, E. P.
——; Dekker, L. V.; Forbes, L. V.; Wientjes, F. B.; Grogan, A.; Pappin, D. J. C.; Segal, A. W.
Direct interaction between $p47^{phox}$ and protein kinase C: evidence for targeting of protein kinase C by $p47^{phox}$ in neutrophils, 345:767
Reffas, S.
——; Schlegel, W.
Compartment-specific regulation of extracellular signal-regulated kinase (ERK) and c-Jun N-terminal kinase (JNK) mitogen-activated protein kinases (MAPKs) by ERK-dependent and non-ERK-dependent inductions of MAPK phosphatase (MKP)-3 and MKP-1 in differentiating P19 cells, 352:701
Rehli, M., *See* Krause, S. W.
Reicher, H., *See* Pussinen, P. M.
Reid, G. A., *See* Gordon, E. H. J.
Reid, J. D., *See* Jensen, P. E.
Reimann, S. A., *See* Dodt, G.
Reiser, C. O. A., *See* Goppelt-Strube, M.
Reithmeier, R. A. F., *See* Li, J.
Relou, I. A. M., *See* Hackeng, C. M.
Ren, Q.
——; de Roo, G.; Kessler, B.; Witholt, B.
Recovery of active medium-chain-length-poly-3-hydroxyalkanoate polymerase from inactive inclusion bodies using ion-exchange resin, 349:599
Renatus, M., *See* Stennicke, H. R.
Rendu, F., *See* Saci, A.
Renes, J.
——; de Vries, E. E. G.; Hooiveld, G. J. E. J.; Krikken, I.; Jansen, P. L. M.; Müller, M.
Multidrug resistance protein MRP1 protects against the toxicity of the major lipid peroxidation product 4-hydroxynonenal, 350:555
Reoma, J. L., *See* Collins, S. P.
Requena, J. M., *See* Soto, M.
Resmini, M.
——; Gul, S.; Carter, S.; Sonkaria, S.; Topham, C. M.; Gallacher, G.; Brocklehurst, K.
A general kinetic approach to investigation of active-site availability in macromolecular catalysts, 346:117
Reszka, K. J., *See* McCormick, M. L.
Rettig, W. J., *See* Rippmann, J. F.
Reuber, B. E., *See* Dodt, G.
Reunanen, N., *See* Laine, P.
Revers, L., *See* Zhang, W.
Reynolds, J. S., *See* Cozier, G.
Ribeiro, J. M.
——; López-Gómez, J.; Vergeles, J. M.; Costas, M. J.; García-Díaz, M.; Fernández, A.; Flores, A.; Cameselle, J. C.
Rat liver nucleotide pyrophasphatase/phosphodiesterase is an efficient adenylyl transferase, 346:25
Riboni, M., *See* Monti, E.
Rice, R. H., *See* Phillips, M. A.
Richardson, D. J., *See* Butler, C. S.
Richardson, M., *See* Helliwell, P. A.
Richmond, M., *See* Aoki, H.
Rickhoff, S., *See* Wuhrer, M.
Ricquier, D.
——; Bouillaud, F.
The uncoupling protein homologues: UCP1, UCP2, UCP3, StUCP and AtUCP, 345:161
Rider, M. H., *See* Deprez, J.
Ridge, J. P.
——; Fyfe, P. K.; McAuley, K. E.; van Brederode, M. E.; Robert, B.; van Grondelle, R.; Isaacs, N. W.; Cogdell, R. J.; Jones, M. R.
An examination of how structural changes can affect the rate of electron transfer in a mutated bacterial photoreaction centre, 351: 567
Rieger, J., *See* Michalczyk, A. A.
Riely, G. J.
——; Rachmilewitz, J.; Koo, P. H.; Tykocinski, M. L.
α_2-Macroglobulin modulates the immunoregulatory function of the lipocalin placental protein 14, 351: 503
Riethmüller, C., *See* Gorren, A. C. F.
Riobó, N., *See* Schöpfer, F.
Riordan, S. M.
——; Lidder, S.; Williams, R.; Skouteris, G. G.
The β-subunit of the hepatocyte growth factor/scatter factor (HGF/SF) receptor phosphorylates and associates with Crkll: expression of Crkll enhances HGF/SF-induced mitogenesis, 350:925
Rippmann, J. F.
——; Pfizenmaier, K.; Mattes, R.; Rettig, W. J.; Moosmayer, D.
Fusion of the tissue factor extracellular domain to a tumour stroma specific single-chain fragment variable antibody results in an antigen-specific coagulation-promoting molecule, 349:805
Ritter, D.
——; Taylor, J. F.; Hoffmann, J. W.; Carnaghi, L.; Giddings, S. J.; Zakeri, H.; Kwok, P.-Y.
Alternative splicing for the α_1 subunit of soluble guanylate cyclase, 346:811
Rittie, L., *See* Monboisse, J.-C.
Rivett, A. J., *See* Brooks, P.; Gardner, R. C.
Robert, B., *See* Ridge, J. P.
Robert, J.-C., *See* Lacapère, J.-J.
Roberts, C. J., *See* Deacon, M. P.
Roberts, N., *See* Paton, M. G.
Robertson, B., *See* Danlois, F.
Robinson, P. J., *See* Jellinek, D. A.
Rocchi, S.
——; Gaillard, I.; Van Obberghen, E.; Chambaz, E. M.; Vilgrain, I.
Adrenocorticotrophic hormone stimulates phosphotyrosine phosphatase SHP2 in bovine adrenocortical cells: phosphorylation and activation by cAMP-dependent protein kinase, 352:483
Rocher, C., *See* Rossignol, R.
Roden, M., *See* Englisch, R.
Rodrigues, C. O., *See* Marchesini, N.
——; Scott, D. A.; Bailey, B. N.; de Souza, W.; Benchimol, M.; Moreno, B.; Urbina, J. A.; Oldfield, E.; Moreno, S. N. J.
Vacuolar proton pyrophosphatase activity and pyrophosphate (PP_i) in *Toxoplasma gondii* as possible chemotherapeutic targets, 349:737
Rodriguez, E., *See* Fitzsimmons, T. J.
Rodríguez-López, J. N., *See* Hiner, A. N. P.
Rodriguez-Martin, T., *See* Galbete, J. L.
Rodríguez-Puyol, D., *See* Torrecillas, G.
Rodríguez-Puyol, M., *See* Torrecillas, G.
Roes, J., *See* Dekker, L. V.
Rogers, R. J.
——; Chesrown, S. E.; Kuo, S.; Monnier, J. M.; Nick, H. S.
Cytokine-inducible enhancer with promoter activity in both the rat and human manganese-superoxide dismutase genes, 347:233
Rohlfs, M., *See* Seelert, H.
Rohmer, M., *See* Charon, L.
Rohrbacher, E., *See* Valdenaire, O.
Rojas, J. D., *See* Meininger, C. J.
Rojo-Niersbach, E.
——; Morley, D.; Heck, S.; Lehming, N.
A new method for the section of protein interactions in mammalian cells, 348:585
Rollin, F., *See* Danlois, F.
Romagnoli, S.
——; Ugolini, R.; Fogolari, F.; Schaller, G.; Urech, K.; Giannattosio, M.; Ragona, L.; Molinari, H.
NMR structural determination of viscotoxin A3 from *Viscum album* L., 350:569
Romahn, E., *See* Husmann, M.
Romainin, C., *See* Hohaus, A.
Romeo, P.-H., *See* Gilgès, D.
Romero, A., *See* Calvete, J. J.
Rong, J.
——; Habuchi, H.; Kimata, K.; Lindahl, U.; Kusche-Gullberg, M.

© 2001 Biochemical Society

Expression of heparan sulphate L-iduronyl 2-O-sulphotransferase in human kidney 293 cells results in increased D-glucuronyl 2-O-sulphation, 346:463
Roos, M. D., *See* Su, K.
Rosado, J. A.
——; Graves, D.; Sage, S. O.
Tyrosine kinases activate store-mediated Ca^{2+} entry in human platelets through the reorganization of the actin cytoskeleton, 351:429
——; Sage, S. O.
Coupling between inositol 1,4,5-trisphosphate receptors and human transient receptor potential channel 1 when intracellular Ca^{2+} stores are depleted, 350:631
Farnesylcysteine analogues inhibit store-regulated Ca^{2+} entry in human platelets: evidence for involvement of small GTP-binding proteins and actin cytoskeleton, 347: 183
Rosenstock, M., *See* Khamaisi, M.
Rosner, M. R., *See* Chesneau, V.
Rosqvist, R., *See* Henriksson, M. L.
Rossignol, R.
——; Letellier, T.; Malgat, M.; Rocher, C.; Mazat, J.-P.
Tissue variation in the control of oxidative phosphorylation: implication for mitochondrial diseases, 347:45
Rossjohn, J., *See* Allocati, N.
Rostagno, A., *See* Tokuda, T.
Roth, R. A., *See* Iynedjian, P. B.
Rothermel, B., *See* Yang, Q.
Rotilio, D., *See* Favaloro, B.
Rouanet, J.-L., *See* Roussel, D.
Rougé, P., *See* Nahoum, V.
Roussel, D.
——; Lhenry, F.; Ecochard, L.; Sempore, B.; Rouanet, J.-L.; Favier, R.
Differential effects of endurance training and creatine depletion on regional mitochondrial adaptations in rat skeletal muscle, 350:547
Routes, J. M.
——; Colton, L. A.; Ryan, S.; Klemm, D. J.
CREG (cAMP response element binding protein) and C/EBPα (CCAAT/enhancer binding protein) are required for the superstimulation of phosphoenolpyruvate carboxykinase gene transcription by adenoviral E1a and cAMP, 352:335
Rouvinen, J., *See* Kerovuo, J.
Roux, G., *See* Nahoum, V.
Rouyer-Fessard, C., *See* Couvineau, A.
Rowland-Yeo, K., *See* Ellis, S. W.
Rubí, B., *See* Morillas, M.
Rubin, K., *See* Tung, H.-s.
Rubinsztein, D. C., *See* Furlong, R. A.; Rankin, J.
Ruchon, A. F., *See* Ghaddar, G.
Rucktäschel, A. K.
——; Granner, D. K.; Christ, B.
Regulation by glucagon (cAMP) and insulin of the promoter of the human phosphoenolpyruvate carboxykinase gene (cytosolic) in cultured rat hepatocytes and in human hepatoblastoma cells, 352: 211
Rudich, A., *See* Khamaisi, M.
Ruffo, A., *See* Festa, M.
Ruhl, D. D.
——; Pusateri, M. E.; Eliceiri, G. L.
Multiple conserved segments of E1 small nucleolar RNA are involved in the formation of a ribonucleoprotein particle in frog oocytes, 348:517
Ruiz-Bellido, M. A., *See* Lobo, C.
Ruiz-Pérez, L. M., *See* Camacho, A.; Montalvetti, A.
Rümenapp, U., *See* Blomquist, A.
Ruminy, P., *See* Olivier, E.
Rumsby, M. G., *See* England, K.
Rundlöf, A.-K.
——; Carlsten, M.; Giacobini, M. M. J.; Arnér, E. S. J.
Prominent expresssion of the selenoprotein thioredoxin reductase in the medullary rays of the rat kidney and thioredoxin reductase mRNA variants differing at the 5′ untranslated region, 347:661
Russell, S. W., *See* Crespo, A.
Russo, G. L.
——; van den Bos, C.; Sutton, A.; Coccetti, P.; Baroni, M. D.; Alberghina, L.; Marshak, D. R.
Phosphorylation of Cdc28 and regulation of cell size by the protein kinase CKII in *Saccharomyces cerevisiae*, 351:143
Rutter, A. J., *See* Jones, A. L.
Ruurs, P., *See* van der Hoeven, F. C. J.
Ruysschaert, J.-M., *See* Danlois, F.; Harvengt, P.
Ruzicka, F. J., *See* Chen, D.
Ruzzene, M., *See* Meggio, F.
Ryan, S., *See* Routes, J. M.
Rydén, C., *See* Tung, H.-s.
Rylett, R. J., *See* Dobransky, T.
Rytka, J., *See* Skoneczny, M.
Ryu, J.-H., *See* Lee, W.-J.

Saba-El-Leil, M. K., *See* Turgeon, B.
Šabová, L., *See* Sokolíková, B.
Saci, A.
——; Rendu, F.; Bachelot-Loza, C.
Platelet αIIb-β3 integrin engagement induces the tyrosine phosphorylation of Cbl and its association with phosphoinositide 3-kinase and Syk, 351:669
Sadée, W., *See* Burford, N. T.
Sadlish, H.
——; Murray, R. C.; Williams, F. M. R.; Flintoff, W. F.
Mutations in the reduced-folate carrier affect protein localization and stability, 346:509
Sadoshima, J., *See* Aoki, H.
Safran, M.
——; Eisenstein, M.; Aviezer, D.; Yayon, A.
Oligomerization reduces heparin affinity but enhances receptor binding of fibroblast growth factor 2, 345:107
Sage, S. O., *See* Rosado, J. A.
Saggerson, E. D., *See* Hamilton, C.
Saha, N., *See* Dombrowski, F.
Saharinen, P., *See* Paukku, K.
Sahlin, K., *See* Tonkonogi, M.
Saikumar, P., *See* Dong, Z.
Saito, H., *See* Hiratsuka, A.
Saito, T.
——; Hascilowicz, T.; Ohkido, I.; Kikuchi, Y.; Okamoto, H.; Hayashi, S.-i.; Murakami, Y.; Matsufuji, S.
Two zebrafish *(Danio rerio)* antizymes with different expression and activities, 345:99
Sajid, M., *See* Gunaratne, R. S.
Sakaguchi, K., *See* Mizushina, Y.
Sakai, S., *See* Kuraishi, T.
Sakamoto, H., *See* Ariga, M.
Sakata, K.
——; Kashiwagi, K.; Igarashi, K.
Properties of a polyamine transporter regulated by antizyme, 347:297
Sakoda, H., *See* Inukai, K.
Saksela, M., *See* Levonen, A.-L.
Salhany, J. M.
——; Cordes, K. A.; Sloan, R. L.
Mechanism of band 3 dimer dissociation during incubation of erythrocyte membranes at 37°C, 345: 33
Salier, J.-P., *See* Olivier, E.
Salinas, M., *See* Martín, M. E.
Salt, I. P., *See* Cheung, P. C. F.
Salvat, C., *See* Pariat, M.
Salvatore, F., *See* Santamaria, R.
Salvesen, G. S., *See* Stennicke, H. R.
Salviati, A., *See* Brunati, A. M.
Samuelsson, B., *See* Zhang, Y.-Y.
Samyn-Petit, B., *See* Harduin-Lepers, A.
Sánchez de Jiménez, E., *See* Dinkova, T. D.
Sanderson, S. J.
——; Pollock, K. G. J.; Hilley, J. D.; Meldai, M.; St Hilaire, P.; Juliano, M. A.; Juliano, L.; Mottram, J. C.; Coombs, G. H.
Expression and characterization of a recombinant cysteine proteinase of *Leishmania mexicana*, 347:383
Sandmann, G., *See* Steiger, S.
Sandy, J. D.
——; Thompson, V.; Doege, K.; Verscharen, C.
The intermediates of aggrecanase-dependent cleavage of aggrecan in rat chondrosarcoma cells treated with interleukin-1, 351:161
Sankawa, U., *See* Suh, D.-Y.
Sankovich, S. E., *See* Elleman, T. C.
Sanna, M. T., *See* Corda, M.
Sano, H., *See* Matsumoto, K.
Sansom, P., *See* Dean, M. F.
Santamaria, R.
——; Esposito, G.; Vitagliano, L.; Race, V.; Paglionico, I.; Zancan, L.; Zagari, A.; Salvatore, F.
Functional and molecular modelling studies of two hereditary fructose intolerance-causing mutations at arginine 303 in human liver aldolase, 350:823
Santos, A. B. F., *See* Portaro, F. C. V.
Santoso, S., *See* Tuckwell, D. S.
Santra, M., *See* Laine, P.
Santucci, R.
——; Bongiovanni, C.; Marini, S.; Del Conte, R.; Tien, M.; Banci, L.; Coletta, M.
Redox equilibria of manganese peroxidase from *Phanerochaetes chrysosporium*: functional role of residues on the proximal side of the haem pocket, 349:85
Sanyal, A. J., *See* Liu, J.
Saraiva, M. J., *See* Sebastião, M. P.
Saraiva, M. J. M., *See* Redondo, C.
Sarno, S., *See* Meggio, F.
Sasaki, Y., *See* Weber, L. P.
Sato, K., *See* Kimura, T.; Murata, N.
Sato, M., *See* Uratani, Y.
Sato, O., *See* Yamada, A.
Satoh, K., *See* Ohmori, T.
Sato-Kusubata, K.
——; Yajima, Y.; Kawashima, S.
Persistent activation of $G_i\alpha$ through limited proteolysis by calpain, 347: 733
Satrústegui, J., *See* del Arco, A.
Sattler, W., *See* Bergt, C.; Pussinen, P. M.
Savidge, G. F., *See* Rahman, S.
Savini, I.
——; Duflot, S.; Avigliano, L.
Dehydroascorbic acid uptake in a human keratinocyte cell line (HaCaT) is glutathione-independent, 345:665
Savithri, H. S., *See* Talwar, R.

© 2001 Biochemical Society

Sawamura, D., *See* Kumano, T.
Sbarra, V., *See* Nganga, A.
Scaloni, A., *See* Loebel, D.
Schablowski, H., *See* Blomquist, A.
Schaefer, M., *See* Hofmann, T.
Schaller, G., *See* Romagnoli, S.
Schaper, F., *See* Haan, S.
Schelling, D., *See* Jones, G.
Schiavo, G., *See* Herreros, J.
Schieke, S. M., *See* Klotz, L.-O.
Schinzel, R., *See* Grießler, R.
Schlegel, W., *See* Reffas, S.
Schliess, F., *See* Kurz, A. K.
Schlöndorff, J.
——; Becherer, J. D.; Blobel, C. P.
Intracellular maturation and localization of the tumour necrosis factor 224 convertase (TACE), 347: 131
Schmid, H. H. O., *See* Berdyshev, E. V.
Schmid, P. C., *See* Berdyshev, E. V.
Schmid, T. E., *See* Hagenbuch, B.
Schmidt, H. H. H., *See* Kotsonis, P.
Schmidt, K., *See* Gorren, A. C. F.; Werner, E. R.
Schneider, B., *See* Englisch, R.
Schofield, C. J., *See* Wright, P. A.
Schofield, G. J., *See* Mihai, R.
Schomburg, D., *See* Witt, S.
Schöofer, F.
——; Riobó, N.; Carreras, M. C.; Alvarez, B.; Radi, R.; Boveris, A.; Cadenas, E.; Poderoso, J. J.
Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage, 349:35
Schoonbroodt, S., *See* Legrand-Poels, S.
Schrachter, H., *See* Zhang, W.
Schrader, M., *See* Calvete, J. J.
Schrammel, A., *See* Gorren, A. C. F.
Schreiber, A. D., *See* Moon, I.-J.
Schröder, B., *See* Melcher, R.
Schuber, F., *See* Augustin, A.; Cakir-Kiefer, C.
Schuch, R., *See* Abbadi, A.
Schülein, M., *See* Becker, D.; Davies, G. J.
Schultz, G., *See* Hofmann, T.
Schulz, H., *See* He, X.-Y.
Schuringa, J.-J., *See* Smith, P. M.
——; Jonk, L. J. C.; Dokter, W. H. A.; Vellenga, E.; Kruijer, W.
Interleukin-6-induced STAT3 transactivation and Ser^{727} jphosphorylation involves Vav, Rac-1 and the kinase SEK-1/MKK-4 as signal transduction components, 347:89
Schürmann, A., *See* Doege, H.
Schütt, B. S., *See* Abbadi, A.
Schwager, S. L. U., *See* Woodman, Z. L.
Schweizer, A., *See* Valdenaire, O.
Schwörer, G., *See* Blomquist, A.
Sciotti, M. A.
——; Nakajin, S.; Wermuth, B.; Baker, M. E.
Mutation of threonine-241 to proline eliminates autocatalytic modification of human carbonyl reductase, 350:89
Scott, D. A., *See* Hill, J. E.; Rodrigues, C. O.
Scott, D. J.
——; Ferguson, A. L.; Gallegos, M.-T.; Pitt, M.; Buck, M.; Hoggett, J. G.
Interaction of sigma factor σ^N with *Escherichia coli* RNA polymerase core enzyme, 352:539
Scott, D. K., *See* Herzog, B.
Scott, J. C., *See* Kennedy, M. W.
Sebastião, M. P.
——; Merlini, G.; Saraiva, M. J.; Damas, A. M.
The molecular interaction of 4′-iodo-4′-deoxydoxorubicin with Leu-55Pro transthyretin 'amyloid-like' oligomer leading to disaggregation, 351:273
Seedorf, K., *See* Slaaby, R.
Seelert, H.
——; Poetsch, A.; Rohlfs, M.; Dencher, N. A.
Dye-ligand chromatographic purification of intact multisubunit membrane protein complexes: application to the chloroplast H^+-F_0F_1-ATP synthase, 346:41
Seet, B. T., *See* Nash, P.
Segal, A. W., *See* Dekker, L. V.; Reeves, E. P.
Seglen, P. O., *See* Fengsrud, M.
Seidah, N. G., *See* Bahbouhi, B.; Ghaddar, G.; Hospital, V.; Lissitzky, J.-C.
Sekharam, M.
——; Cunnick, J. M.; Wu, J.
Involvement of lipoxygenase in lysophosphatidic acid-stimulated hydrogen peroxide release in human HaCaT keratinocytes, 346:751
Sekiguchi, K., *See* Naito, M.
Sekimizu, K., *See* Kondo, T.
Sekouri, H., *See* Plo, I.
Selheim, F.
——; Fukami, M. H.; Holmsen, H.; Vassbotn, F. S.
Platelet-derived-growth-factor-induced signalling in human platelets: phosphoinositide-3-kinase-dependent inhibition of platelet activation, 350:469
Selkoe, D. J., *See* Chesneau, V.
Sempore, B., *See* Roussel, D.
Seo, Y.-S., *See* Lee, A. H.
Serra, D., *See* Eggers, A.; Morillas, M.
Serrano-Gomicia, J. A., *See* Nuttall, S. D.
Servos, J., *See* Braun, N.
Sessions, R., *See* Cozier, G.
Seto, M., *See* Weber, L. P.
Seya, T., *See* Nomura, M.
Shah, O. J.
——; Kimball, S. R.; Jefferson, L. S.
Among translational effectors, p70*S6k* is uniquely sensitive to inhibition by glucocorticoids, 347:389
Shai, Y., *See* Hetru, C.
Sham, M. H., *See* So, C. W.
Shantz, L. M., *See* Mackintosh, C. A.
Shao, H., *See* Finlin, B. S.
Sharma, D. K.
——; Hilley, J. D.; Bangs, J. D.; Coombs, G. H.; Mottram, J. C.; Menon, A. K.
Soluble GPI8 restores glycosylphosphatidylinositol anchoring in a trypanosome cell-free system depleted of lumenal endoplasmic reticulum proteins, 351: 717
Sharpe, M. A., *See* Svistunenko, D. A.
She, Q.-B., *See* Huang, J.-S.
Shears, S., *See* Dewaste, V.
Shears, S. B., *See* Yang, X.
Sheehan, J., *See* Tselepis, C.
Sheehan, J. K.
——; Brazeau, C.; Kutay, S.; Pigeon, H.; Kirkham, S.; Howard, M.; Thornton, D. J.
Physical characterization of the MUC5AC mucin: a highly oligomeric glycoprotein whether isolated from cell culture or *in vivo* from respiratory mucous secretions, 347:37
Shen, X., *See* Tang, L.
——; Tian, Z.; Holtzman, M. J.; Gao, B.
Cross-talk between interleukin 1β (IL-1β) and IL-6 signalling pathways: IL-1β selectively inhibits IL-6-activated signal transducer and activator of transcription factor 1 (STAT1) by a proteasome-dependent mechanism, 352:913
Shennan, K. I. J., *See* Blázquez, M.
Shenolikar, S., *See* Liu, J.
Shepherd, P. R., *See* Beeton, C. A.
Shewan, A. M.
——; Marsh, B. J.; Melvin, D. R.; Martin, S.; Gould, G. W.; James, D. E.
The cytosolic C-terminus of the glucose transporter GLUT4 contains an acidic cluster endosomal targeting motif distal to the dileucine signal, 350:99
Shi, J., *See* Feng, J.
Shi, Y., *See* Kong, W.
——; Zou, M.; Farid, N. R.; Paterson, M. C.
Association of *FHIT* (fragile histidine triad), a candidate tumour suppressor gene, with the ubiquitin-conjugating enzyme hUBC9, 352:443
Shibata, H., *See* Omata, W.
Shibuya, H.
——; Kaneko, S.; Hayashi, K.
Enhancement of the thermostability and hydrolytic activity of xylanase by random gene suffling, 349:651
Shibuya, M., *See* Suh, D.-Y.
Shimizu, T., *See* Nakatani, N.
Shimizu, Y., *See* Findelstein, L. D.
Shimohigashi, Y., *See* Chijiwa, T.
Shimoyama, Y.
——; Tsujimoto, G.; Kitajima, M.; Natori, M.
Identification of three human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins, 349:159
Shin, D.-W., *See* Bandyopadhyay, A.
Shintaku, M., *See* Higashida, H.
Shintani, S., *See* Ohta, T.
Shioda, S., *See* Zhao, L.-X.
Shiota, S., *See* Kong, W.
Shipston, M. J., *See* Duncan, R. R.
Shivdasani, R. A., *See* Malik, T. H.
Short, A. D.
——; Winston, G. P.; Taylor, C. W.
Different receptors use inositol trisphosphate to mobilize Ca^{2+} from different intracellular pools, 351:683
Shou, J., *See* Mullapudi, S. R. S.
Shrimpton, C. N.
——; Abbenante, G.; Lew, R. A.; Smith, A. I.
Development and characterization of novel potent and stable inhibitors of endopeptidase EC 3.4.24.15, 345:351
Shutenko, Z. v., *See* Kotsonis, P.
Sian, A. K.
——; Frears, E. R.; El-Agnaf, O. M. A.; Patel, B. P.; Manca, M. F.; Siligardi, G.; Hussain, R.; Austen, B. M.
Oligomerization of β-amyloid of the alzheimer's and the Dutch-cerebral-haemorrhage types, 349:299
Sideris, M. L., *See* Buggy, J. J.
Sienaert, I., *See* Adkins, C. E.
Sies, H., *See* Klotz, L.-O.
Si-Hoe, S. M., *See* Levett, L. J.
Siligardi, G., *See* Sian, A. K.
Silvennoinen, O., *See* Paukku, K.
Simon-Assmann, P., *See* Olsen, J.
Simpson, P. J., *See* Abou Hachem, M.
Simpson, R. J., *See* Hammacher, A.
Sinclair, K. E., *See* Knott, T. G.
Singh, D., *See* Dyck, J. R. B.
Sinha, A.
——; Yadav, S.; Ahmad, R.; Ahmad, F.
A possible origin of differences between calorimetric and

© 2001 Biochemical Society

equilibrium estimates of stability parameters of proteins, 345:711
Sinha, A. K., *See* Bruce, L. J.
Sinnott, M. L., *See* Becker, D.
Siow, Y. L., *See* Wang, G.
Sipma, H., *See* Vanlingen, S.
Sirimanne, S. R., *See* Feng, J.
Sjöström, H., *See* Mitchelmore, C.
Skoneczny, M.
——; Rytka, J.
Oxygen and haem regulate the synthesis of peroxisomal proteins: catalase A, acyl-CoA oxidase and Pex1p in the yeast *Saccharomyces cerevisiae*: the regulation of these proteins by oxygen is not mediated by haem, 350:313
Skouteris, G. G., *See* Riordan, S. M.
Slaaby, R.
——; Du, G.; Altshuller, Y. M.; Frohman, M. A.; Seedorf, K.
Insulin-induced phospholipase D1 and phospholipase D2 activity in human embryonic kidney-293 cells mediated by the phospholipase Cγ and protein kinase Cα signalling cascade, 351:613
Slabaugh, M. B., *See* Abbadi, A.
Slack, B. E.
——; The m3 muscarinic acetylcholine receptor is coupled to mitogen-activated protein kinase via protein kinase C and epidermal growth factor receptor kinase, 348:381
Slakey, L. L., *See* Holbrook, M. R.
Sliva, D.
——; Gu, M.; Zhu, Y. X.; Chen, J.; Tsai, S.; Du, X.; Yang, Y.-C.
14–3–3ζ interacts with the α-chain of human interleukin 9 receptor, 345: 741
Sloan, R. L., *See* Salhany, J. M.
Sluder, G., *See* Suprynowicz, F. A.
Sluis-Cremer, N.
——; Arion, D.; Kaushik, N.; Lim, H.; Parniak, M. A.
Mutational analysis of Lys^{65} of HIV-1 reverse transcriptase, 348:77
Smales, C., *See* Wong, E. Y. M.
Smedsrød, B., *See* Matsumoto, K.
Smith, A. I., *See* Shrimpton, C. N.
Smith, C. A., *See* Toogood, H. S.
Smith, C. W., *See* Powers, E. A.
Smith, D., *See* Levett, L. J.
Smith, G., *See* Ellis, S. W.
Smith, G. A., *See* Kirschenlohr, H. L.
——; Dixon, H. B. F.; Kirschenlohr, H. L.; Grace, A. A.; Metcalfe, J. C.; Vandenberg, J. I.
Ca^{2+} buffering in the heart: Ca^{2+} binding to and activation of cardiac myofibrils, 346:393
Smith, J. C., *See* Dunn, R. V.
Smith, J. D., *See* Tokuda, T.
Smith, L., *See* Tuckwell, D. S.
Smith, P. M.
——; Harmer, A. R.; Letcher, A. J.; Irvine, R. F.
The effect of inositol 1,3,4,5-tetrakisphosphate on inositol trisphosphate-induced Ca^{2+} mobilization in freshly isolated and cultured mouse lacrimal acinar cells, 347:77
Smith, T., *See* McNair, A.
Snedden, W. A., *See* Lee, S. H.
Snoeck, R., *See* Verri, A.
Snoek, G. T., *See* van Tiel, C. M.
Snoep, J. L., *See* Somsen, O. J. G.
Snyder, P. M., *See* Farr, T. J.
So, C. K. C., *See* So, C. W.
So, C. W.
——; Sham, M. H.; Chew, S. L.; Cheung, N.; So, C. K. C.; Chung, S. K.; Caldas, C.; Wiedemann, L. M.; Chan, L. C.
Expression and protein-binding studies of the *EEN* gene family, new interacting partners for dynamin, synaptojanin and huntingtin proteins, 348:447
Soboslay, P. T., *See* Wuhrer, M.
Sohi, M. K., *See* Boehm, M. K.
Sokolíková, B.
——; Šabová, L.; Kiššová, I.; Kolarov, J.
A carbon-source-responsive element is required for regulation of the hypoxic ADP/ATP carrier (AAC3) isoform in *Saccharomyces cerevisiae*, 352:893
Sokolov, B. P., *See* Yuan, C. M.
Sommer, S., *See* Kruse, C.
Somsen, O. J. G.
——; Hoeben, M. A.; Esgalhado, E.; Snoep, J. L.; Visser, D.; van der Heijden, R. T. J. M.; Heijinen, J. J.; Westerhoff, H. V.
Glucose and the ATP paradox in yeast, 352:593
Song, S., *See* Adachi, K.
Sonkaria, S., *See* Resmini, M.
Sood, R.
——; Porter, A. C.; Ma, K.; Quilliam, L. A.; Wek, R. C.
Pancreatic eukaryotic initiation factor-2α kinase (PEK) homologues in humans, *Drosophila melanogaster* and *Caenorhabditis elegans* that mediate translational control in response to endoplasmic retuculum stress, 346:281
Soong, T. W., *See* Zhang, L.
Soos, M. A., *See* Whitehead, J. P.
Sorgato, M. C., *See* Meggio, F.
Sorokin, A., *See* McGinty, A.
Sorrell, T. C., *See* Chen, S. C. A.
Soto, C., *See* Baumann, M. H.
Soto, M.
——; Quijada, L.; Alonso, C.; Requena, J. M.
Histone synthesis in *Leishmania infantum* is tightly linked to DNA replication by a translational control, 346:99
Soum, E., *See* Ferret, P. J.
Soury, E., *See* Olivier, E.
Soutar, A. K., *See* Patel, D. D.
Spadari, S., *See* Verri, A.
Spassky, N., *See* Traver, S.
Spener, F., *See* Abbadi, A.
Spicer, A. P., *See* Jacobson, A.
Spodsberg, N., *See* Mitchelmore, C.
Squier, T. C., *See* Negash, S.
Sriram, B.
——; Banerjea, A. C.
In vitro-selected RNA cleaving DNA enzymes from a combinatorial library are potent inhibitors of HIV-1 gene expression, 352:667
Srivenugopal, K. S., *See* Mullapudi, S. R. S.
St. J. Bird, G., *See* McKay, R. R.
Stacey, K. J., *See* Fowles, L. F.
Staddon, J. M., *See* Wong, E. Y. M.
Staff, A. C., *See* Halvorsen, B.
Ståhl, A.
——; Pavlov, P. F.; Szigyarto, C.; Glaser, E.
Rapid degradation of the presequence of the $F_1\beta$ precursor of the ATP synthase inside mitochondria, 349: 703
Stahl, S. J., *See* Davis, D. A.
Stallmeyer, B., *See* Frank, S.
Stalmans, W., *See* Beullens, M.
Stanic, I., *See* Stefanelli, C.
Stanley, P.
——; McDowall, A.; Bates, P. A.; Brashaw, J.; Hogg, N.
The second domain of intercellular adhesion molecule-1 (ICAM-1) maintains the structural integrity of the leucocyte function-associated antigen-1 (LFA-1) ligand-binding site in the first domain, 351:79
Staples, D. J., *See* Powers, E. A.
Stead, L. M.
——; Brosnan, M. E.; Brosnan, J. T.
Characterization of homocysteine metabolism in the rat liver, 350:685
Steelant, W. F. A., *See* Harduin-Lepers, A.
Stefanelli, C.
——; Stanic, I.; Zini, M.; Bonavita, F.; Flamigni, F.; Zambonin, L.; Landi, L.; Pignatti, C.; Guarnieri, C.; Caldarera, C. M.
Polyamines directly induce release of cytochrome *c* from heart mitochondria, 347:875
Stefanini, S., *See* Yang, X.
Steggles, J., *See* Martin, P. E. M.
Steiger, S.
——; Astier, C.; Sandmann, G.
Substrate specificity of the expressed carotenoid 3,4-desaturase from *rubrivivax gelatinosus* reveals the detailed reaction sequence to spheroidene and spirilloxanthin, 349: 635
Stein, R. C., *See* Coulonval, K.
Stein, S. C.
——; Woods, A.; Jones, N. A.; Davison, M. D.; Carling, D.
The regulation of AMP-activated protein kinase by phosphorylation, 345:437
Steinhilber, D., *See* Straif, D.
Stender, H., *See* Belkner, J.
Stennicke, H. R.
——; Renatus, M.; Meldal, M.; Salvesen, G. S.
Internally quenched fluorescent peptide substrates disclose the subsite preferences of human caspases 1, 3, 6, 7 and 8, 350:563
Stephens, D. J.
——; Banting, G.
In vivo dynamics of the F-actin-binding protein neurabin-II, 345:185
Stephenson, K.
——; Jensen, C. L.; Jørgensen, S. T.; Lakey, J. H.; Harwood, C. R.
The influence of secretory-protein charge on late stages of secretion from the Gram-positive bacterium *Bacillus subtilis*, 350:31, 351:839
Sterchi, E. E., *See* Hahn, D.
Stevens, J. M.
——; Armstrong, R. N.; Dirr, H. W.
Electrostatic interactions affecting the active site of class sigma glutathione S-transferase, 347:193
St Hilaire, P., *See* Sanderson, S. J.
Stierhof, Y.-D., *See* Lischke, A.
Stoichevska, V., *See* Grusovin, J.
Stokes, D. C., *See* Harduin-Lepers, A.
Stokke, T., *See* Kolpakova, E.
Stokoe, D., *See* Fang, X.
Stoll, D.
——; He, S.; Withers, S. G.; Warren, R. A. J.
Identification of Glu-519 as the catalytic nucleophile in β-mannosidase 2A from *Cellulomonas fimi*, 351:833
Stortelers, C., *See* van de Poll, M. L. M.
St-Pierre, J., *See* Cadenas, S.
Straif, D.
——; Werz, O.; Kellner, R.; Bahr, U.; Steinhilber, D.
Glutathione peroxidase-1 but not -4 is involved in the regulation of cellular

© 2001 Biochemical Society

5-lipoxygenase activity in monocytic cells, 349:455
Strand, K., *See* Rahman, S.
Strecker, G., *See* Guerardel, Y.
Striessnig, J., *See* Huber, I.
Strømhaug, P. E., *See* Fengsrud, M.
Strooban, V., *See* Delpierre, G.
Strotmann, H., *See* Konno, H.
Stubbs, M., *See* Agius, L.
Studler, J.-M., *See* Toutant, M.
Stumpp, M. T., *See* Konno, H.
Sturrock, E. D., *See* Woodman, Z. L.
Sturrock, J., *See* Suprynowicz, F. A.
Su, K.
——; Yang, X.; Roos, M. D.; Paterson, A. J.; Kudlow, J. E.
Human Sug1/p45 is involved in the proteasome-dependent degradation of Sp1, 348:281
Sugawara, F., *See* Mizushina, Y.
Sugden, M. C., *See* Holness, M. J.
——; Kraus, A.; Harris, R. A.; Holness, M. J.
Fibre-type specific modification of the activity and regulation of skeletal muscle pyruvate dehydrogenase kinase (PDK) by prolonged starvation and refeeding is associated with targeted regulation of PDK isoenzyme 4 expression, 346:651
——; Langdown, M. L.; Harris, R. A.; Holness, M. J.
Expression and regulation of pyruvate dehydrogenase kinase isoforms in the developing rat heart and in adulthood: role of thyroid hormone status and lipid supply, 352:731
Sugio, S., *See* Hiraoka, B. Y.
Sugiura, N.
——; Takishima, K.
Regulation of the gene promoter for extracellular signal-regulated protein kinase 2 by transcription factors NF-Y and Sp3, 347:155
Sugiyama, K.-i.
——; Kawamura, A.; Izawa, S.; Inoue, Y.
Role of glutathione in heat-shock-induced cell death of *Saccharomyces cerevisiae*, 352:71
Suh, D.-Y.
——; Fukuma, K.; Kagami, J.; Yamazaki, Y.; Shibuya, M.; Ebizuka, Y.; Sankawa, U.
Identification of amino acid residues important in the cyclization reactions of chalcone and stilbene synthases, 350:229
Sui, S.-f., *See* Wang, S.-X.; Xia, X.-f.
Sum, C., *See* Lin, W.-w.
Sumitani, J.-i.
——; Tottori, T.; Kawaguchi, T.; Arai, M.
New type of starch-binding domain: the direct repeat motif in the C-terminal region of *Bacillus* sp. no. 195 α-amylase contributes to starch binding and raw starch degrading, 350:477
Sun, H., *See* Negash, S.
Sun, Y., *See* Kuraishi, T.
——; Conner, J.
Characterization of heterosubunit complexes formed by the R1 and R2 subunits of herpes simplex virus 1 and equine herpes virus 4 ribonucleotide reductase, 347:97
——; Jin, P.; Witte, D. P.; Grabowski, G. A.
Prosaposin: promoter analysis and central-nervous-system-preferential elements for expression *in vivo*, 352: 549
Sun, Y.-T., *See* Wang, S.-X.
Sundberg, K.
——; Jernström, B.; Swedmark, S.
Studies on the differential inhibition of glutathione conjugate formation of (+)-*anti*-benzo[*a*]pyrene 7,8-dihydrodiol 9,10-epoxide and 1-chloro-2,4-dinitrobenzene in V79 Chinese hamster cells, 349:693
Sunna, A.
——; Gibbs, M. D.; Bergquist, P. L.
The thermostabilizing domain, XynA, of *Caldibacillus cellulovorans* xylanase is a xylan binding domain, 346:583
Supino-Rosin, L., *See* Barnoy, S.
Suprynowicz, F. A.
——; Groigno, L.; Whitaker, M.; Miller, F. J.; Sluder, G.; Sturrock, J.; Whalley, T.
Activation of protein kinase C alters $P34^{cdc2}$ phosphorylation state and kinase activity in early sea urchin embryos by abolishing intracellular CA^{2+} transients, 349:489
Sutherland, C., *See* Jin, J.-P.; Lee, S. H.
Suttitanamongkol, S.
——; Gear, A. R. L.; Polanowska-Grabowska, R.
Geldanamycin disrupts platelet-membrane structure, leading to membrane permeabilization and inhibition of platelet aggregation, 345:307
Sutton, A., *See* Russo, G. L.
Sutton, B. J., *See* Boehm, M. K.
Suzuki, H., *See* Matsumoto, K.
Suzuki, T., *See* Park, K. C.
——; Yamamoto, Y.; Umekawa, M.
Stichopus japonicus arginine kinase: gene structure and unique substrate recognition system, 351:579
Svistunenko, D. A.
——; Sharpe, M. A.; Nicholls, P.; Blenkinsop, C.; Davies, N. A.; Dunne, J.; Wilson, M. T.; Cooper, C. E.
The pH dependence of naturally occurring low-spin forms of methaemoglobin and metmyoglobin: an EPR study, 351:595
Swamynathan, S. K.
——; Nambiar, A.; Guntaka, R. V.
Chicken Y-box proteins chk-YB-2 repress translation by sequence-specific interaction with single-stranded RNA, 348:297
Swann, K., *See* Jones, K. T.
Swärd, K., *See* Weber, L. P.
Swarnakar, S.
——; Asokan, R.; Quigley, J. P.; Armstrong, P. B.
Binding of α_2-macroglobulin and limulin: regulation of the plasma haemolytic system of the american horseshoe crab, *Limulus*, 347:679
Swaving, J., *See* Müller, J. P.
Swedmark, S., *See* Sundberg, K.
Swigart, P.
——; Insall, R.; Wilkins, A.; Cockcroft, S.
Purification and cloning of phosphatidylinositol transfer proteins from *Dictyostelium discoideum*: homologues of both mammalian PITPs and *Saccharomyces cerevisiae* Sec14p are found in the same cell, 347:837
Szigyarto, C., *See* Ståhl, A.
Szilard, R. K.
——; Rachubinski, R. A.
Tetratricopeptide repeat domain of *Yarrowia lipolytica* Pex5p is essential for recognition of the type 1 peroxisomal targeting signal but does not confer full biological activity on Pex5p, 346:177
Szymeczek-Seay, C. L., *See* McKay, R. R.

Tacken, P. J.
——; de Beer, F.; van Vark, L. O.; Havekes, L. M.; Hofker, M. h.; Willems van Dijk, K.
Very-low-density lipoprotein binding to the apolipoprotein E receptor 2 is enhanced by lipoprotein lipase, and does not require apolipoprotein E, 347:357
Takahara, H., *See* Iijima, K.
Takahashi, S.-I., *See* Ariga, M.
Takai, A.
——; Tsuboi, K.; Koyasu, M.; Isobe, M.
Effects of modification of the hydrophobic C-1-C-16 segment of tautomycin on its affinity to type-1 and type-2A protein phosphatases, 350:81
Takata, K., *See* Omata, W.
Takata, Y., *See* Nakajima, A.
Takazawa, K., *See* Dewaste, V.
Takeda, Y., *See* Higashida, H.
Takeshima, H., *See* Hayek, S. M.
Takeuchi, A., *See* Hasegawa, T.
Takeuchi, H., *See* Iida, S.-i
——; Chen, J.-H.; O'Reilly, D. R.; Rees, H. H.; Turner, P. C.
Regulation of ecdysteroid signalling: molecular cloning, characterization and expression of 3-dehydroecdysone 3α-reductase, a novel eukaryotic member of the short-chain dehydrogenases/reductases superfamily from the cotton leafworm, *spodoptera littoralia*, 349: 239
——; Oike, M.; Paaterson, H. F.; Allen, V.; Kanematsu, T.; Ito, Y.; Erneux, C.; Katan, M.; Hirata, M.
Inhibition of Ca^{2+} signalling by p130, a phospholipase-C-related catalytically inactive protein: critical role of the p130 pleckstrin homology domain, 349:357
Takeuchi, M., *See* Ohta, S.
Takiguchi-Hayashi, K., *See* Uratani, Y.
Takishima, K., *See* Sugiura, N.
Talwar, R.
——; Leelavathy, V.; Krishna Rao, J. V.; Appaji Rao, N.; Savithri, H. S.
Role of Pro-297 in the catalytic mechanism of sheep liver serine hydroxymethyltransferase, 350:849
Tamama, K.-i., *See* Kimura, T.
Tamaoka, K., *See* Wang, L.
Tamburro, A., *See* Favaloro, B.
Tamura, M.
——; Kanno, M.; Endo, Y.
Deactivation of neutrophil NADPH oxidase by actin-depolymerizing agents in a cell-free system, 349:369
Tamura, S., *See* Hiraga, A.
Tanaka, A., *See* Zhao, L.-X.
Tanaka, K., *See* Brooks, P.; Park, K. C.
Tanaka, T., *See* Okoniewska, M.
Tanaka, Y., *See* Kameoka, M.
Tanase, S., *See* Watanabe, H.
Tanfani, F., *See* Grieβler, R.
Tang, G., *See* Zhu, X.
Tang, L.
——; Zhang, Y.; Qian, Z.; Shen, X.
The mechanism of Fe^{2+}-initiated lipid peroxidation in liposomes: the dual function of ferrous ions, the roles of the pre-existing lipid peroxides and the lipid peroxyl radical, 352:27
Tang, T.-K., *See* Chow, L.-P.
Tang, X., *See* Liscovitch, M.
Tanner, M. J. A., *See* Bruce, L. J.; Young, M. R.

© 2001 Biochemical Society

Taraschi, T. F., *See* Haltiwanger, B. M.; Komatsu, H.
Taudte, S.
——; Xin, H.; Kallenbach, N. R.
Alanine mutagenesis of high-mobility-group-protein-1 box B (HMG1-B), 347:807
Tauler, A., *See* Fernández de Mattos, S. F.
Tavaré, J. M., *See* Fletcher, L. M.
Tavernier, J., *See* Waelput, W.
Taylor, A. J., *See* Tucker, A. L.
Taylor, C. W., *See* Adkins, C. E.; Short, A. D.
Taylor, J. F., *See* Ritter, D.
Taylor, P. M., *See* Peter, G. J.
Taylor, W. A., *See* Mutter, T.
TeKoppele, J. M., *See* Verzijl, N.
Telepnev, M., *See* Henriksson, M. L.
Tellier, C., *See* Gonçalves, O.
Tendler, S. J. B., *See* Deacon, M. P.
ten Have, R.
——; Franssen, M. C. R.; Field, J. A.
Lignin peroxidase initiates O_2-dependent self-propagating chemical reactions which accelerate the consumption of 1-(3′, 4′-dimethoxyphenyl)propene, 347:585
Testar, X., *See* Enrique-Tarancón, G.
Tetley, L., *See* Moore, J.
Tetsuka, T., *See* Kameoka, M.
Tettamanti, G., *See* Monti, E.
Teuchert, M., *See* van de Loo, J.-W. H. P.
Thames, E. L.
——; Newton, D. A.; Black, S. A., Jr.; Bowman, L. H.
Role of mRNA stability and translation in the expression of cytochrome *c* oxidase during mouse myoblast differentiation: instability of the mRNA for the liver isoform of subunit Vla, 351:133
Thelen, J. J.
——; Miernyk, J. A.; Randall, D. D.
Pyruvate dehydrogenase kinase from *arabidopsis thaliana*: a protein histidine kinase that phosphorylates serine residues, 349:195
Thevelein, J. M., *See* Bonini, B. M.
Thiele, C., *See* Blázquez, M.
Thøgersen, H. C., *See* Lorentsen, R. H.
Thomas, C. P., *See* Auerbach, S. D.
Thomas, J. A., *See* Wu, H.-H.
Thomas, J.-L., *See* Traver, S.
Thomas, L., *See* Wen, Y.
Thomas, P. D., *See* Dyck, J. R. B.
Thomas-Soumarmon, A., *See* Lacapère, J.-J.
Thompson, D. P., *See* Powers, E. A.
Thompson, G. M.
——; Pacheco, E.; Melo, E. O.; Castilho, B. A.
Conserved sequences in the β subunit of archaeal and eukaryal translation initiation factor 2 (eIF2), absent from eIF5, mediate interaction with eIF2γ, 347:703
Thompson, V., *See* Sandy, J. D.
Thomson, A. J., *See* Busch, J. L. H.; Butler, C. S.
Thomson, C. A.
——; Ananthanarayanan, V. S.
Structure-function studies on Hsp47: pH-dependent inhibition of collagen fibril formation *in vitro*, 349:877
Thöny, B.
——; Auerbach, G.; Blau, N.
Tetrahydrobiopterin biosynthesis, regeneration and functions, 347:1
Thornton, D., *See* Tselepis, C.
Thornton, D. J., *See* Sheehan, J. K.
Thornton, J. D., *See* Boehm, M. K.
Thornton, R. D.
——; Lane, P.; Borghaei, R. C.; Pease, E. A.; Caro, J.; Mochan, E.
Interleukin 1 induces hypoxia-inducible factor 1 in human gingival and synovial fibroblasts, 350:307
Thorpe, S. R., *See* Verzijl, N.
Thullner, S.
——; Gesellchen, F.; Wiemann, S.; Pyerin, W.; Kinzel, V.; Bossemeyer, D.
The protein kinase A catalytic subunit Cβ2: molecular characterization and distribution of the splice variant, 351:123
Thurmond, J. M., *See* Leonard, A. E.
Tian, Z., *See* Shen, X.
Tiedge, M., *See* Alcazar, O.
Tien, M., *See* Santucci, R.
Tijerina, T., *See* Carr, A. C.
Till, M.
——; Ouwens, D. M.; Kessler, A.; Eckel, J.
Molecular mechanisms of contraction-regulated cardiac glucose transport, 346:841
Timmers, H. Th. M., *See* van der Knaap, J. A.
Tipton, K. F., *See* Lizcano, J. M.
Titievsky, A., *See* Törnquist, K.
Toell, A.
——; Polly, P.; Carlberg, C.
All natural DR3-type vitamin D response elements show a similar functionality *in vitro*, 352:301
Tokuda, T.
——; Calero, M.; Matsubara, E.; Vidal, R.; Kumar, A.; Permanne, B.; Zlokovic, B.; Smith, J. D.; Ladu, M. J.; Rostagno, A.; Frangione, B.; Ghiso, J.
Lipidation of apolipoprotein E influences its isoform-specific interaction with Alzheimer's amyloid β peptides, 348:359
Tolnay, M.
——; Baranyi, L.; Tsokos, G. C.
Heterogeneous nuclear ribonucleoprotein DO contains transactivator and DNA-binding domains, 348:151
Tomme, P., *See* Boraston, A. B.
Tomura, H., *See* Kimura, T.; Murata, N.
Tonkonogi, M.
——; Krook, A.; Walsh, B.; Sahlin, K.
Endurance training increases stimulation of uncoupling of skeletal muscle mitochondria in humans by non-esterified fatty acids: an uncoupling-protein-mediated effect?, 351:805
Toogood, H. S.
——; Smith, C. A.; Baker, E. N.; Daniel, R. M.
Purification and characterization of Ak.1 protease, a thermostable subtilisin with a disulphide bond in the substrate-binding cleft, 350:321
Topham, C. M., *See* Resmini, M.
Törnquist, K.
——; Vainio, P. J.; Björklund, S.; Titievsky, A.; Dugué, B.; Tuominen, R. K.
Hydrogen peroxide attenuates store-operated calcium entry and enhances calcium extrusion in thyroid FRTL-5 cells, 351:47
Török, K., *See* Adkins, C. E.
Torrecillas, G.
——; Díez-Marqués, M. L.; García-Escribano, C.; Bosch, R. J.; Rodríguez-Puyol, D.; Rodríguez-Puyol, M.
Mechanisms of cGMP-dependent mesangial-cell relaxation: a role for myosin light-chain phosphatase activation, 346:217
Torres, A. M.
——; de Plater, G. M.; Doverskog, M.; Birinyi-Strachan, L. C.; Nicholson, G. M.; Gallagher, C. H.; Kuchel, P. W.
Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold, 348:649
Torshin, I.
——; Direct and reversed amino acid sequence pattern analysis: structural reasons for activity of reversed sequence sites and results of kinase site mutagenesis, 345:733
Tosh, D., *See* Pryor, P. R.
Tottori, T., *See* Sumitani, J.-i.
Toutant, M.
——; Studler, J.-M.; Burgaya, F.; Costa, A.; Ezan, P.; Gelman, M.; Girault, J.-A.
Autophosphorylation of Tyr^{397} and its phosphorylation by Src-family kinases are altered in focal-adhesion-kinase neuronal isoforms, 348:119
Toye, A. M., *See* Bruce, L. J.; Young, M. T.
Toyoshima, K., *See* Nomura, M.
Trabzuni, C.
——; Famulski, K. S.; Ahmad, M.
Functional analysis of tumour necrosis factor-α-related apoptosis-inducing ligand (TRAIL): cystein-230 plays a critical role in the homotrimerization and biological activity of this novel tumoricidal cytokine, 350:505
Tran, T. L., *See* Xie, W.
Traver, S.
——; Bidot, C.; Spassky, N.; Baltauss, T.; de Tand, M.-F.; Thomas, J.-L.; Zalc, B.; Janoueix-Lerosey, I.; de Gunzburg, J.
RGS14 is a novel Rap effector that preferentially regulates the GTPase activity of $G\alpha_O$, 350:19, 351:839
Treves, S., *See* Zorzato, F.
Tripathi, R., *See* Gunaratne, R. S.
Troelsen, J. T., *See* Mitchelmore, C.; Olsen, J.
Trofino, M. A., *See* Favaloro, B.
Trollér, Y., *See* Henriksson, M. L.
Troxler, R. F., *See* Liu, B.
Tsai, J.-J., *See* Chow, L.-P.
Tsai, S., *See* Sliva, D.
Tsao, Y.-P., *See* Chou, H.-K.
Tselepis, C.
——; Kwan, A. P. L.; Thornton, D.; Sheehan, J.
The biochemical characterization of aggrecan from normal and tibial-dyschondroplastic chicken-plate cartilage, 351:517
Tsokos, G. C., *See* Tolnay, M.
Tsuboi, K., *See* Takai, A.
Tsuchida, S., *See* Kumano, T.
Tsuchiya, T., *See* Kondo, T.
Tsuji, T., *See* Ohta, S.
Tsujimoto, G., *See* Shimoyama, Y.
Tsujimura, A., *See* Nomura, M.
Tu, Q., *See* Zheng, L.
——; Yu, L.; Zhang, P.; Zhang, M.; Zhang, H.; Jiang, J.; Chen, C.; Zhao, S.
Cloning, characterization and mapping of the human *ATP5E* gene, identification of pseudogene *ATP5EP1*, and definition of the ATP5E motif, 347:17
Tucker, A. L.
——; Jia, L.; Holeton, D.; Taylor, A. J.; Linden, J.

© 2001 Biochemical Society

Dominance of G_s in double G_s/G_i-coupled chimaeric A_1/A_{2A} adenosine receptors in HEK-293 cells, 352:203
Tucker, G. T., *See* Ellis, S. W.
Tuckwell, D. S.
——; Smith, L.; Korda, M.; Askari, J. A.; Santoso, S.; Barnes, M. J.; Farndale, R. W.; Humphries, M. J.
Monoclonal antibodies identify residues 199–216 of the integrin 242vWFA domain as a functionally important region within $\alpha 2\beta 1$, 350: 485
Tung, H.-s.
——; Guss, B.; Hellman, U.; Persson, L.; Rubin, K.; Rydén, C.
A bone sialoprotein-binding protein from *Staphylococcus aureus*: a member of the staphylococcal Sdr family, 345:611
Tuominen, R. K., *See* Törnquist, K.
Turgeon, B.
——; Saba-El-Leil, M. K.; Meloche, S.
Cloning and characterization of mouse extracellular-signal-regulated protein kinase 3 as a unique gene product of 100 kDa, 346:169
Turnay, J., *See* Wagner, K.
Turner, P. C., *See* Takeuchi, H.
Turner, W. L.
——; Plaxton, W. C.
Purification and characterization of cytosolic pyruvate kinase from banana fruit, 352:875
Tykocinski, M. L., *See* Riely, G. J.
Tzivion, G., *See* Yip-Schneider, M. T.

Ueda, K., *See* Zhao, L.-X.
Ueda, S., *See* Matsumoto, K.
Ueno, T., *See* Fengsrud, M.
Ugolini, R., *See* Romagnoli, S.
Uhler, M. D., *See* Collins, S. P.
Uhm, C.-S., *See* Kim, I.
Ui, M., *See* Kimura, T.
Ul, M., *See* Murata, N.
Umekawa, M., *See* Suzuki, T.
Unwin, R. J., *See* Bruce, L. J.
Unzeta, M., *See* Lizcano, J. M.
Uozumi, N., *See* Nakatani, N.
Uratani, Y.
——; Takiguchi-Hayashi, K.; Miyasaka, N.; Sato, M.; Jin, M.-h.; Arimatsu, Y.
Latexin, a carboxypeptidase A inhibitor, is expressed in rat peritoneal mast cells and is associated with granular structures distinct from secretory granules and lysosomes, 346:817
Urbano, A. M.
——; Gillham, H.; Groner, Y.; Brindle, K. M.
Effects of overexpression of the liver subunit of 6-phosphofructo-1-kinase on the metabolism of a cultured mammalian cell line, 352:921
Urbina, J. A., *See* Rodrigues, C. O.
Urech, K., *See* Romagnoli, S.
Usami, N., *See* Ohta, T.
Ustrell, V., *See* Rechsteiner, M.

Vacher, M., *See* Foucault, G.
Vadas, M. A., *See* Pitson, S. M.
Vainio, P. J., *See* Törnquist, K.
Valdenaire, O.
——; Rohrbacher, E.; Langeveld, A.; Schweizer, A.; Meijers, C.
Organization and chromosomal localization of the human *ECEL1 (XCE)* gene encoding a zinc metallopeptidase involved in the nervous control of respiration, 346: 611
Valdivia, H. H., *See* Hayek, S. M.
Valero, E.
——; Varón, R.; García-Carmona, F.
Kinetics of a self-amplifying substrate cycle: ADP-ATP cycling assay, 350: 237
Valette, A., *See* Pasqualini, E.
Valgeirsdóttir, S., *See* Paukku, K.
Vallejo-Ruiz, V., *See* Harduin-Lepers, A.
van Anken, E., *See* Nagelkerken, B.
van Beeumen, J., *See* Ntarima, P.
van Bitterswijk, W. J., *See* van der Hoeven, P. C. J.
van Brederode, M. E., *See* Ridge, J. P.
Vandekerckhove, J., *See* Waelput, W.
Vandeleur, L., *See* Pitson, S. M.
van de Loo, J.-W. H. P.
——; Teuchert, M.; Pauli, I.; Plets, E.; Van de Ven, W. J. M.; Creemers, J. W. M.
Dynamic palmitoylation of lymphoma proprotein convertase prolongs its half-life but is not essential for *trans*-Golgi network localization, 352:827
Vandenberg, J. I., *See* Kirschenlohr, H. L.; Smith, G. A.
van den Boom, V., *See* van der Knaap, J. A.
van den Bos, C., *See* Russo, G. L.
van den Brink, G. R., *See* Versteeg, H. H.
Vandenbunder, B., *See* Glineur, C.
Vandenbussche, G., *See* Danlois, F.
van de Poll, M. L. M.
——; van Rotterdam, W.; Gadellaa, M. M.; Stortelers, C.; van Vugt, M. J. H.; van Zoelen, E. J. J.
Non-linear antigenic regions in epidermal growth factor (EGF) and transforming growth factor (TGFα) studied by EGF—TGFα—chimaeras, 349:267
Vandeput, F., *See* Coulonval, K.
van der Heijden, R. T. J. M., *See* Somsen, O. J. G.
Vanderheyden, N.
——; Wong, J.; Docampo, R.
A pyruvate-proton symport and an H^+-ATPase regulate the intracellular pH of *Trypanosoma brucei* at different stages of its life cycle, 346:53, 347:887
van der Hoeven, P. C. J.
——; van der Wal, J. C. M.; Ruurs, P.; van Blitterswijk, W. J.
Protein kinase C activation by acidic proteins including 14–3–3, 347:781
——; van der Wal, J. C. M.; Ruurs, P.; van Dijk, M. C. M.; van Blitterswijk, W. J.
14–3–3 Isotypes facilitate coupling of protein kinase C-ζ to Raf-1: negative regulation by 14–3–3 phosphorylation, 345:297
van der Knaap, J. A.
——; van den Boom, V.; Kuipers, J.; van Eijk, M. J. T.; van der Vliet, P. C.; Timmers, H. Th. M.
The gene for human TATA-binding-protein-associated factor (TAF_{II}) 170: structure, promoter and chromosomal localization, 345:521
van der Sluijs, P., *See* Nagelkerken, B.
van der Spuy, J.
——; Kana, B. D.; Dirr, H. W.; Blatch, G. L.
Heat shock cognate protein 70 chaperone-binding site in the co-chaperone murine stress-inducible protein 1 maps to within three consecutive tetratricopeptide repeat motifs, 345:645
van der Vliet, A., *See* Reddy, S.
van der Vliet, P. C., *See* van der Knaap, J. A.
van der Wal, J. C. M., *See* van der Hoeven, P. C. J.
van der Werf, M. J.
——; Purification and characterization of Baeyer-Villiger mono-oxygenase from *rhodococcus erythropolis* DCL14 involved in three different monocyclic monoterpene degradation pathways, 347:693
van der Woude, K., *See* Darley, C. P.
Van de Ven, W. J. M., *See* van de Loo, J.-W. H. P.
van Deventer, S. J. H., *See* Versteeg, H. H.
Vandewalle, A., *See* Ogier-Denis, E.
van de Werve, G., *See* Xie, W.
van Dijck, P., *See* Bonini, B. M.
van Dijk, M. C. M., *See* van der Hoeven, P. C. J.
van Eijk, M., *See* Danlois, F.
van Eijk, M. J. T., *See* van der Knaap, J. A.
Van Eynde, A., *See* Beullens, M.
van Gool, R. G. J., *See* Dekkers, D. W. C.
van Grondelle, R., *See* Ridge, J. P.
Vanguri, V. K.
——; Wang, S.; Godyna, S.; Ranganathan, S.; Liau, G.
Thrombospondin-1 binds to polyhistidine with high affinity and specificity, 347:469
Vanhaesebroeck, B.
——; Alessi, D. R.
The PI3K1-PDK1 connection: more than just a road to PKB, 346:561
Van Lierop, J. E., *See* Lee, S. H.
Vanlingen, S.
——; Sipma, H.; De Smet, P.; Callewaert, G.; Missiaen, L.; De Smedt, H.; Parys, J. B.
Ca^{2+} and calmodulin differentially modulate *myo*-inositol 1,4,5-trisphosphate (IP_3)-binding to the recombinant ligand-binding domains of the various IP_3 receptor isoforms, 346:275
Van Obberghen, E., *See* Rocchi, S.
van Raak, M., *See* Nagelkerken, B.
van Rijn, H. J. M., *See* Hackeng, C. M.
van Rotterdam, W., *See* van de Poll, M. L. M.
Van Schaftingen, E., *See* Delpierre, G.
Van Seuningen, I.
——; Perrais, M.; Pigny, P.; Porchet, N.; Aubert, J.-P.
Sequence of the 5′-flanking region and promoter activity of the human mucin gene *MUC5B* in different phenotypes of colon cancer cells, 348:675
van Sluijters, D. A.
——; Dubbelhuis, P. F.; Blommaart, E. F. C.; Meijer, A. J.
Amino-acid-dependent signal transduction, 351:545
Vanstapel, F., *See* Delpierre, G.
van Tiel, C. M.
——; Luberto, C.; Snoek, G. T.; Hannun, Y. A.; Wirtz, K. W. A.
Rapid replenishment of sphingomyelin in the plasma membrane upon degradation by sphingomyelinase in NIH3T3 cells overexpressing the phosphatidylinositol transfer protein β, 346:537
van Uden, N., *See* Nagelkerken, B.
van Vaeck, C., *See* Bonini, B. M.
van Vark, L. O., *See* Tacken, P. J.
van Voorst, F.
——; de Kruijff, B.
Role of lipids in the translocation of proteins across membranes, 347:601
van Vugt, M. J. H., *See* van de Poll, M. L. M.

© 2001 Biochemical Society

van Wely, K. H. M., *See* Müller, J. P.
van Wuytswinkel, O. C. M., *See* Darley, C. P.
van Zoelen, E. J. J., *See* van de Poll, M. L. M.
Varga, A., *See* Ahmed, N.
Varón, R., *See* Valero, E.
Varrot, A., *See* Davies, G. J.
Vassbotn, F. S., *See* Selheim, F.
Vázquez-Prado, J., *See* del Carmen Medina, L.
Vedadi, M., *See* Ahvazi, B.
Vedeler, A.
——; Hollås, H.
Annexin II is associated with mRNAs which may constitute a distinct subpopulation, 348:565
Veit, M.
——; Palmitoylation of the 25-kDa synaptosomal protein (SNAP-25) *in vitro* occurs in the absence of an enzyme, but is stimulated by binding to syntaxin, 345:145
Vekrellis, K., *See* Chesneau, V.
Velasco, G., *See* Gómez del Pulgar, T.
Velasco-García, R.
——; González-Segura, L.; Muñox-Clares, R. A.
Steady-state kinetic mechanism of the $NADP^+$- and NAD^+-dependent reactions catalysed by betaine aldehyde dehydrogenase from *Pseudomonas aeruginosa*, 352:675
Vellenga, E., *See* Schuringa, J.-J.
Venema, R. C., *See* Ju, H.
Venema, V. J., *See* Ju, H.
Venerando, B., *See* Monti, E.
Venkatachalam, M. A., *See* Dong, Z.
Venkateswarlu, K.
——; Cullen, P. J.
Signalling via ADP-ribosylation factor 6 lies downstream of phosphatidylinositide 3-kinase, 345: 719
Veress, I.
——; Haghighi, S.; Pulkka, A.; Pajunen, A.
Changes in gene expression in response to polyamine depletion indicates selective stabilization of mRNAs, 346:185
Vergeles, J. M., *See* Ribeiro, J. M.
Verhee, A., *See* Waelput, W.
Verine, A., *See* Pasqualini, E.
Verma, C. S., *See* Noble, M. A.
Vernet, T., *See* Zapun, A.
Verri, A.
——; Focher, F.; Duncombe, R. J.; Basnak, I.; Walker, R. T.; Coe, P. L.; De Clercq, E.; Andrei, G.; Snoeck, R.; Balzarini, J.; Spadari, S.
Anti-(herpes simplex virus) activity of 4′-thio-2′-deoxyuridines: a biochemical investigation for viral and cellular target enzymes, 351:319
Verscharen, C., *See* Sandy, J. D.
Versteeg, H. H.
——; Nijhuis, E.; van den Brink, G. R.; Evertzen, M.; Pynaert, G. N.; van Deventer, S. J. H.; Coffer, P. J.; Peppelenbosch, M. P.
A new phosphospecific cell-based ELISA for p42/p44 mitogen-activated protein kinase (MAPK), p38 MAPK, protein kinase B and cAMP-response-element-binding protein, 350:717
Verzijl, N.
——; DeGroot, J.; Oldehinkel, E.; Bank, R. A.; Thorpe, S. R.; Baynes, J. W.; Bayliss, M. T.; Bijlsma, J. W. J.; Lafeber, F. P. J. G.; TeKoppele, J. M.
Age-related accumulation of Maillard reaction products in human articular cartilage collagen, 350:381
Vettermann, S., *See* Müller, J. P.
Veugelers, K., *See* Nash, P.
Vidal, R., *See* Tokuda, T.
Vig, E., *See* Nagarajan, R. P.
Vigon, I., *See* Gilgès, D.
Vijayvargia, R., *See* Biswas, I.
Vilgrain, I., *See* Rocchi, S.
Villarroya, F., *See* Alvarez, R.
Viñas, O., *See* Alvarez, R.
Vinit, M.-A., *See* Gilgès, D.
Visser, D., *See* Somsen, O. J. G.
Visser, J., *See* Kester, H. C. M.; Pařenicová, L.
Vitagliano, L., *See* Santamaria, R.
Vitale, G.
——; Bernardi, L.; Napolitani, G.; Mock, M.; Montecucco, C.
Susceptibility of mitogen-activated protein kinase kinase family members to proteolysis by anthrax lethal factor, 352:739
Vlerick, A., *See* Harvengt, P.
Voelker, D. R., *See* Hartshorn, K. L.
Vogt, A., *See* Jelezarova, E.
Voilley, N., *See* Dyck, J. R. B.
Vollbrandt, T., *See* Kruse, C.
vom Dahl, S., *See* Kurz, A. K.
von der Mark, K., *See* Wagner, K.
Vrielink, A., *See* Ahvazi, B.
Vu, N.-D., *See* Wagner, P. D.
Vulsteke, V., *See* Beullens, M.

Wabiko, H., *See* Nomura, M.
Wade, D. P., *See* Patel, D. D.
Wadsworth, H., *See* Gardner, R. C.
Waelput, W.
——; Verhee, A.; Broekaert, D.; Eyckerman, S.; Vandekerckhove, J.; Beattie, J. H.; Tavernier, J.
Identification and expression analysis of leptin-regulated immediate early response and late target genes, 348: 55
Wagner, C. A., *See* Bröer, A.
Wagner, K.
——; Pöschl, E.; Turnay, J.; Baik, J.-m.; Pihlajaniemi, T.; Frischholz, S.; von der Mark, K.
Coexpression of α and β subunits of prolyl 4-hydroxylase stabilizes the triple helix of recombinant human type X collagen, 352:907
Wagner, P. D.
——; Vu, N.-D.
Histidine to aspartate phosphotransferase activity of nm23 proteins: phosphorylation of aldolase C on Asp-319, 346:623
Wakui, H., *See* Hulkko, S. M.
Waldhäusl, W., *See* Englisch, R.
Walker, E. H.
——; French, C. E.; Rathbone, D. A.; Bruce, N. C.
Mechanistic studies of morphine dehydrogenase and stabilization against covalent inactivation, 345: 687
Walker, R. T., *See* Verri, A.
Wallace, B. A., *See* Hanlon, M. R.
Wallace, H. M., *See* Chabanon, H.
Walsh, B., *See* Tonkonogi, M.
Walsh, K. B., *See* McAbee, D. D.
Walsh, M. P., *See* Jin, J.-P.; Lee, S. H.; Weber, L. P.; Yamada, A.
Walter, R. D., *See* Krause, T.; Lüersen, K.
Waltner-Law, M., *See* Herzog, B.
Wan, T., *See* Boehm, M. K.
Wang, D., *See* Burford, N. T.
Wang, G.
——; Siow, Y. L.; O, Karmin
Homocysteine stimulates nuclear factor κB activity and monocyte chemoattractant protein-1 expression in vascular smooth-muscle cells: a possible role for protein kinase C, 352:817
Wang, H., *See* Xia, R.-H.
Wang, H.-W., *See* Lin, W.-w.
Wang, J., *See* Falany, C. N.
Wang, L.
——; Eriksson, S.
Cloning and characterization of full-length mouse thymidine kinase 2: the N-terminal sequence directs import of the precursor protein into mitochondria, 351:469
——; Hayashi, H.; Kishi, K.; Huang, L.; Hagi, A.; Tamaoka, K.; Hawkins, P. T.; Ebina, Y.
G_i-mediated translocation of GLUT4 is independent of p85/p110α and p110γ phosphoinositide 3-kinases but might involve the activation of Akt kinase, 345:543, 348:687
Wang, S., *See* Vanguri, V. K.
Wang, S.-X.
——; Sun, Y.-T.; Sui, S.-F.
Membrane-induced conformational change in human apolipoprotein H, 348:103
Wang, W.-Y.
——; Liaw, S.-H.; Liao, T.-H.
Cloning and characterization of a novel nuclease from shrimp hepatopancreas, and prediction of its active site, 346:799
Wang, X., *See* Jellinek, D. A.
Wang, Y., *See* Zhang, L.
Wappl, E., *See* Huber, I.
Ward, C. W., *See* Elleman, T. C.; Grusovin, J.
Ward, R. V.
——; Jennings, K. H.; Jepras, R.; Neville, W.; Owen, D. E.; Hawkins, J.; Christie, G.; Davis, J. B.; George, A.; Karran, E. H.; Howlett, D. R.
Fractionation and characterization of oligomeric, protofibrillar and fibrillar forms of β-amyloid peptide, 348:137
Warner, A. J.
——; Lopez-Dee, J.; Knight, E. L.; Feramisco, J. R.; Prigent, S. A.
The Shc-related adaptor protein, Sck, forms a complex with the vascular-endothelial-growth-factor receptor KDR in transfected cells, 347:501
Warren, M. E., *See* Kester, H. C. M.
Warren, R. A. J., *See* Stoll, D.
Waszak, G. A., *See* Powers, E. A.
Watabe, T., *See* Hiratsuka, A.
Watanabe, H.
——; Tanase, S.; Nakajou, K.; Maruyama, T.; Kragh-Hansen, U.; Otagiri, M.
Role of Arg-410 and Tyr-411 in human serum albumin for ligand binding and esterase-like activity, 349:813
Watanabe, M., *See* Yamada, A.
Watanabe, T., *See* Kimura, T.
Waterfield, M. D., *See* Parekh, D. B.
Watson, C. E., *See* Zhang, W.
Wattenberg, B. W., *See* Lan, S.; Pitson, S. M.
Wattiez, R., *See* Harvengt, P.
Way, G.
——; O'Luanaigh, N., Cockcroft, S.
Activation of exocytosis by cross-linking of the IgE receptor is dependent on ADP-ribosylation factor 1-regulated phospholipase D in RBL-2H3 mast cells: evidence that the mechanism of activation is via regulation of

© 2001 Biochemical Society

phosphatidylinositol 4,5-bisphosphate synthesis, 346:63
Weber, L. P.
——; Seto, M.; Sasaki, Y.; Swärd, K.; Walsh, M. P.
The involvement of protein kinase C in myosin phosphorylation and force development in rat tail arterial smooth muscle, 352:573
Webster, S. P., *See* Leadbeater, C.
Wei, Q.-Q., *See* Xia, R.-H.
Wei, Y.-H., *See* Lee, H.-C.
Weinberg, J. M., *See* Dong, Z.
Weiner, J. A.
——; Chen, A.; Davis, B. H.
Platelet-derived growth factor is a principal inductive factor modulating mannose 6-phosphate/insulin-like growth factor-II receptor gene expression via a distal E-box in activated hepatic stellate cells, 345:225
Wek, R. C., *See* Sood, R.
Welsh, G. I., *See* Fletcher, L. M.
Welter, J., *See* Balasubramanian, S.
Wen, Y.
——; Gu, J.; Knaus, U. G.; Thomas, L.; Gonzales, N.; Nadler, J. L.
Evidence that 12-lipoxygenase product 12-hydroxyeicosatetraenoic acid activates p21-activated kinase, 349:481
Wendel, A., *See* Meergans, T.
Wereley, J. P., *See* Chitambar, C. R.
Wermuth, B., *See* Sciotti, M. A.
Werner, E. R., *See* Gorren, A. C. F.
——; Habisch, H.-J.; Gorren, A. C. F.; Schmidt, K.; Canevari, L.; Werner-Felmayer, G.; Mayer, B.
Contrasting effects of N^5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase, 348:579
Werner-Felmayer, G., *See* Werner, E. R.
Wert, M. M.
——; Palfrey, H. C.
Divergence in the anti-apopototic signalling pathways used by nerve growth factor and basic fibroblast growth factor (bFGF) in PC12 cells: rescue by bFGF involves protein kinase Cδ, 352:175
Werth, V. P., *See* Zhang, W.
Werz, O., *See* Straif, D.
Westerhoff, H. V., *See* Somsen, O. J. G.
Wetterholm, A., *See* Andberg, M.
Wettstein, M., *See* Dombrowski, F.
Wetzler, C., *See* Frank, S.
Whalley, T., *See* Suprynowicz, F. A.
Wheeler, K., *See* Levett, L. J.
Whitaker, M., *See* Suprynowicz, F. A.
Whitbread, L., *See* Njålsson, R.
White, M. R., *See* Hartshorn, K. L.
Whitehead, J. P.
——; Soos, M. A.; Aslesen, R.; O'Rahilly, S.; Jensen, J.
Contraction inhibits insulin-stimulated insulin receptor substrate-1/2-associated phosphoinositide 3-kinase activity, but not protein kinase B activation or glucose uptake, in rat muscle, 349:775
Whitford, D., *See* Hanlon, M. R.
Wickström, C.
——; Christersson, C.; Davies, J. R.; Carlstedt, I.
Macromolecular organization of saliva: identification of 'insoluble' MUC5B assemblies and non-mucin proteins in the gel phase, 351:421
Wiedemann, L. W., *See* So, C. W.
Wieder, T., *See* Essmann, F.
Wiemann, S., *See* Thullner, S.
Wientjes, F. B., *See* Reeves, E. P.
Wijdenes, J., *See* Hammacher, A.
Wijelath, E., *See* Rahman, S.
Wikvall, K., *See* Postlind, H.
Wilhelm, F.-X., *See* Wilhelm, M.
Wilhelm, M.
——; Boutabout, M.; Wilhelm, F.-X.
Expression of an active form of recombinant Ty1 reverse transcriptase in *Escherichia coli*: a fusion protein containing the C-terminal region of the Ty1 integrase linked to the reverse transcriptase-RNase H domain exhibits polymerase and RNase H activities, 348:337
Wilkins, A., *See* Swigart, P.
Wilkinson, M. C., *See* Duncan, J. S.
Wilkinson, S. R.
——; Meyer, D. J.; Kelly, J. M.
Biochemical characterization of a trypanosome enzyme with glutathione-dependent peroxidase activity, 352:755
Willems van Dijk, K., *See* Tacken, P. J.
Williams, F. M. R., *See* Sadlish, H.
Williams, J. P.
——; Imperial, V.; Khan, M. U.; Hodson, J. N.
The role of phosphatidylcholine in fatty acid exchange and desaturation in *brassica napul* L. leaves, 349:127
Williams, K. J., *See* Fuki, I. V.; Zhang, W.
Williams, M. C., *See* Cao, Y.-X.
Williams, P. M., *See* Deacon, M. P.
Williams, R., *See* Riordan, S. M.
Williams, R. S., *See* Yang, Q.
Williamson, M. P., *See* Abou Hachem, M.
Willkomm, D. K., *See* Kruse, C.
Wilmouth, R. C., *See* Wright, P. A.
Wilson, C., *See* Martin, P. E. M.
Wilson, E. M., *See* Massaad, C.
Wilson, M. T., *See* Svistunenko, D. A.
Winderickx, J., *See* Bonini, B. M.
Wingfield, P. T., *See* Davis, D. A.
Winston, G. P., *See* Short, A. D.
Winter, A. G.
——; Pierotti, A. R.
Gene expression of the dibasic-pair cleaving enzyme NRD convertase (*N*-arginine dibasic convertase) is differentially regulated in the GH3 pituitary and Mat-Lu prostate cell lines, 351:755
Wintersperger, A., *See* Pussinen, P. M.
Wirtz, K. W. A., *See* Komatsu, H.; van Tiel, C. M.
Wissing, F., *See* Adkins, C. E.
Withers, S. G., *See* Stoll, D.
Witholt, B., *See* Ren, Q.
Witt, S.
——; Wohlfahrt, G.; Schomburg, D.; Hecht, H.-J.; Kalisz, H. M.
Conserved arginine-516 of *Penicillium amagasakiense* glucose oxidase is essential for the efficient binding of 22-D-glucose, 347:553
Witte, D. P., *See* Sun, Y.
Wohlfahrt, G., *See* Witt, S.
Wojcikiewicz, R. J. H., *See* Zhu, C.-C.
Wolf, C. R., *See* Ellis, S. W.
Wolf, J.
——; Heinrich, R.
Effect of cellular interaction on glycolytic oscillations in yeast: a theoretical investigation, 345:321
Wolf-Watz, H., *See* Henriksson, M. L.
Wollman, E. E., *See* Ferret, P. J.
Wondrak, G. T.
——; Cervantes-Laurean, D.; Jacobson, E. L.; Jacobson, M. K.
Histone carbonylation *in vivo* and *in vitro*, 351:769
Wong, B.-S., *See* Brown, D. R.
Wong, E. Y. M.
——; Morgan, L.; Smales, C.; Lang, P.; Gubby, S. E., Staddon, J. M.
Vascular endothelial growth factor stimulates dephosphorylation of the catenins p120 and p100 in endothelial cells, 346:209
Wong, J., *See* Vanderheyden, N.
Wong, P.S.-Y., *See* Reddy, S.
Wong, S., *See* Ahmed, N.
Wong, W.-K., *See* Chen, H.
Woo, C.-H.
——; Lee, Z.-W.; Kim, B.-C.; Ha, K.-S.; Kim, J.-H.
Involvement of cytosolic phosphilpase A_2, and the subsequent release of arachidonic acid, in signalling by Rac for the generation of intracellular reactive oxygen species in Rat-2 fibroblasts, 348:525
Woodman, Z. L.
——; Oppong, S. Y.; Cook, S.; Hooper, N. M.; Schwager, S. L. U.; Brandt, W. F.; Ehlers, M. R. W.; Sturrock, E. D.
Shedding of somatic angiotensin-converting enzyme (ACE) is inefficient compared with testis ACE despite cleavage at identical stalk sites, 347:711
Woods, A., *See* Stein, S. C.
Woodworth, R. C., *See* He, Q.-Y.
Woscholski, R., *See* Giuriato, S.
Wrenger, C., *See* Krause, T.
Wright, L. C., *See* Chen, S. C. A.
Wright, P. A.
——; Wilmouth, R. C.; Clifton, I. J.; Schofield, C. J.
'pH-jump' crystallographic analyses of γ-lactam-porcine pancreatic elastase complexes, 351:335
Wrong, O., *See* Bruce, L. J.
Wu, F.-m., *See* Kamthong, P. J.
Wu, G., *See* Meininger, C. J.
Wu, H.-H.
——; Thomas, J. A.; Momand, J.
p53 protein oxidation in cultured cells in response to pyrrolidine dithiocarbamate: a novel method for relating the amount of p53 oxidatiion *in vivo* to the regulation of p53-responsive genes, 351:87
Wu, J., *See* Liu, J.; Sekharam, M.
Wu, J.-J., *See* Dai, L.
Wu, M.-c., *See* Kamthong, P. J.
Wu, Q., *See* Zheng, L.
Wu, S.-L., *See* Ho, T.-Y.
Wuhrer, M.
——; Rickhoff, S.; Dennis, R. D.; Lochnit, G.; Soboslay, P. T.; Baumeister, S.; Geyer, R.
Phosphocholine-containing, zwitterionic glycosphingolipids of adult *Onchocerca volvulus* as highly conserved antigenic structures of parawsitic nematodes, 348:417
Wurzinger, R., *See* Englisch, R.
Wyttenbach, A., *See* Furlong, R. A.; Rankin, J.

Xia, P., *See* Pitson, S. M.
Xia, R.-H.
——; Cheng, X.-Y.; Wang, H.; Chen, K.-Y.; Wei, Q.-Q.; Zhang, X.-H.; Zhu, P.-H.
Biphasic modulation of ryanodine binding to sarcoplasmic reticulum vesicles of skeletal muscle b y Zn^{2+} ions, 345:279
Xia, X.-f.
——; Sui, S.-f.
The membrane insertion of trichosanthin is membrane-surface-pH dependent, 349:835
Xiao, G.-H., *See* Dobransky, T.

© 2001 Biochemical Society

Xiao, H., *See* Hasegawa, T.
Xie, W.
——; Li, Y.; Méchin, M.-C.; van de Werve, G.
Up-regulation of liver glucose-6-phosphatase in rats fed with a P_i-deficient diet, 345:767
——; Tran, T. L.; Finegood, D. T.; van de Werve, G.
Dietary P_i deprivation in rats affects liver cAMP, glycogen, key steps of gluconeogenesis and glucose production, 352:227
Xie, X., *See* Falany, C. N.
Xin, H., *See* Taudte, S.
Xu, A., *See* Lee, S. H.
Xue, Z.-G., *See* Chen, Y.-H.
Xu-Welliver, M.
——; Kanugula, S.; Loktionova, N. A.; Crone, T. M.; Pegg, A. E.
Conserved residue lysine^{165} is essential for the ability of O^6-alkylguanine-DNA alkyltransferase to react with O^6-benzylguanine, 347:527
——; Pegg, A. E.
Point mutations at multiple sites including highly conserved amino acids maintain activity, but render O^6-alkylguanine-DNA alkyltransferase to react with O^6-benzylguanine, 347:519

Yada, R. Y., *See* Okoniewska, M.
Yadav, S., *See* Sinha, A.
Yajima, Y., *See* Sato-Kusubata, K.
Yamada, A.
——; Sato, O.; Watanabe, M.; Walsh, M. P.; Ogawa, Y.; Imaizumi, Y.
Inhibition of smooth-muscle myosin-light-chain phosphatase by Ruthenium Red, 349:797
Yamada, T., *See* Naito, M.
Yamaguchi, Y., *See* Fujita, H.
Yamakura, F., *See* Hiraoka, B. Y.
Yamamoto, K., *See* Iida, S.-i
Yamamoto, Y., *See* Suzuki, T.
Yamauchi, S., *See* Nakamura, M.
Yamazaki, T., *See* Kumano, T.
Yamazaki, Y., *See* Suh, D.-Y.
Yan, X.
——; Curley, K.; Lawrence, D. S.
The specificity of the protein kinase C α, βII and γ isoforms as assessed by an unnatural alcohol-appended peptide library, 349:709
——; Zhao, X.; Qian, M.; Guo, N.; Gong, X.; Zhu, X.
Characterization and gene structure of a novel retinoblastoma-protein-associated protein similar to the transcription regulator TFII4-I, 345: 749
Yanagita, M., *See* Murata, N.
Yang, H., *See* Zeng, Z.
Yang, J., *See* Pryor, P. R.
Yang, Q.
——; Kong, Y.; Rothermel, B.; Garry, D. J.; Bassel-Duby, R.; Williams, R. S.
The winged-helix/forkhead protein myocyte nuclear factor β (MNF-β) forms a co-repressor complex with mammalian Sin3B, 345:335
Yang, S.-D., *See* Chan, W.-H.
Yang, S.-Y., *See* He, X.-Y.
Yang, X., *See* Su, K.
——; Chiancone, E.; Stefanini, S.; Ilari, A.; Chasteen, N. D.
Iron oxidation and hydrolysis reactions of a novel ferritin from *Listeria innocua*, 349:783
——; Shears, S. B.
Multitasking in signal transduction by a promiscuous human Ins(3,4,5,6)P_4 1-kinase/Ins(1,3,4)P_3 5/6-kinase, 351: 551
Yang, Y.-C., *See* Sliva, D.
Yang, Y.-Z., *See* He, X.-Y.
Yao, Q., *See* Negash, S.
Yao, S. Y. M., *See* Parker, M. D.
Yarchoan, R., *See* Davis, D. A.
Yasui, H., *See* Fujita, H.
Yatomi, Y., *See* Ohmori, T.
Yauch, R. L.
——; Hemler, M. E.
Specific interactions among transmembrane 4 superfamily (TM4SF) proteins and phosphoinositide 4-kinase, 351:629
Yayon, A., *See* Safran, M.
Yazawa, I.
——; Aberrant phosphorylation of dentatorubral-pallidoluysian atrophy (DRPLA) protein complex in brain tissue, 351:587
Yegneswaran, S., *See* Hackeng, T. M.
Yem, A. W., *See* Powers, E. A.
Yeon, J., *See* Jo, Y.
Yin, P.-H., *See* Lee, H.-C.
Yip-Schneider, M. T.
——; Miao, W.; Lin, A.; Barnard, D. S.; Tzivion, G.; Marshall, M. S.
Regulation of the Raf-1 kinase domain by phosphorylation and 14–3–3 association, 351:151
Yodogawa, M., *See* Konno, H.
Yoo, J.
——; Lee, S. S.; Jeong, M.-J.; Lee, K. I.; Kwon, B.-M.; Kim, S.-H.; Park, Y.-M.; Han, M. Y.
Characterization of the mouse dynamin I gene promoter and identification of sequences that direct expression in neuronal cells, 351:661
Yoshida, M., *See* Matsumoto, K.; Zhang, Z.-Z.
Yoshihara, K., *See* Kameoka, M.
Yoshioka, T., *See* Motojima, M.
Young, H. C., *See* Mayo, K. H.
Young, J. D., *See* Parker, M. D.
Young, M. T., *See* Bruce, L. J.
——; Beckmann, R.; Toye, A. M.; Tanner, M. J. A.
Red-cell glycophorin A-band 3 interactions associated with the movement of band 3 to the cell surface, 350:53
Yu, C.-J., *See* Chow, L.-P.
Yu, J., *See* Zheng, L.
Yu, J.-S., *See* Chan, W.-H.
Yu, L., *See* Tu, Q.; Zheng, L.
Yu, S., *See* Fang, X.
Yuan, C. M.
——; Ala-Kokko, L.; Le Guellec, D.; Franc, S.; Fertala, A.; Khillan, J. S.; Sokolov, B. P.; Prockop, D. J.
Lack of a phenotype in transgenic mice aberrantly expressing COL2A1 mRNA because of highly selective post-transcriptional down-regulation, 345:377
Yuli, M., *See* Khamaisi, M.
Yusifov, T. N.
——; Abduragimov, A. R.; Gasymov, O. K.; Glasgow, B. J.
Endonuclease activity in lipocalins, 347:815
Yuste, L., *See* Díaz-Rodríguez, E.

Zagari, A., *See* Santamaria, R.
Zaid, A., *See* Luciakova, K.
Zajac-Kaye, M.
——; Ben-Baruch, N.; Kastanos, E.; Kaye, F. J.; Allegra, C.
Induction of Myc-intron-binding polypeptides MIBP1 and RFX1 during retinoic acid-mediated differentiation of haemopoietic cells, 345:535
Zakeri, H., *See* Ritter, D.
Zalc, B., *See* Traver, S.
Zaltash, S., *See* Danlois, F.
Zambonin, L., *See* Stefanelli, C.
Zancan, L., *See* Santamaria, R.
Zaner, K., *See* Hartshorn, K. L.
Zanetta, J.-P., *See* Harduin-Lepers, A.
Zappacosta, B., *See* Corda, M.
Zapun, A.
——; Grammatyka, S.; Déral, G.; Vernet, T.
Calcium-dependent conformational stability of modules 1 and 2 of human gelsolin, 350:873
Zeng, Z.
——; Huang, Z. Z.; Chen, C.; Yang, H.; Mao, Z.; Lu, S. C.
Cloning and functional characterization of the 5′-flanking region of human methionine adenosyltransferase 1A gene, 346: 475
Zhang, H., *See* Li, B.; Tu, Q.
Zhang, J.-S., *See* Higashida, H.
Zhang, J.-T.
——; Determinant of the extracellular location of the N-terminus of human multidrug-resistance-associated protein, 348:597
Zhang, L., *See* Ahvazi, B.
——; Lee, T.; Wang, Y.; Soong, T. W.
Heterologous expression, functional characterization and localization of two isoforms of the monkey iron transporter Nramp2, 349:289
Zhang, M., *See* Tu, Q.; Zheng, L.
Zhang, P., *See* Tu, Q.
Zhang, Q.-X.
——; Pilquil, C. S.; Dewald, J.; Berthiaume, L. G.; Brindley, D. N.
Identification of structurally important domains of lipid phosphate phosphatase-1: implications for its sites of action, 345:181
Zhang, S.
——; Bagshaw, R.; Hilson, W.; Oho, Y.; Hinek, A. Clarke, J. T. R.; Hinek, A.; Callahan, J. W.
Characterization of β-galactosidase mutations Asp^{332}→Asn and Arg^{148}→Ser, and a polymorphism, Ser^{332}→Gly, in a case of G_{M1} gangliosidosis, 348:621
Zhang, W.
——; Revers, L.; Pierce, M.; Schachter, H.
Regulation of expression of the human β-1,2-*N*-acetylglucosaminyl transferase II gene *(MGAT2)* by Tes transcription factors, 347:511
——; Watson, C. E.; Liu, C.; Williams, K. J.; Werth, V. P.
Glucocorticoids induce a near-total suppression of hyaluronan synthase mRNA in dermal fibroblasts and in osteoblasts: a molecular mechanism contributing to organ atrophy, 349: 91
Zhang, X.-H., *See* Xia, R.-H.
Zhang, Y., *See* Fong, C. W.; Tang, L.
Zhang, Y.-Y.
——; Hammarberg, T.; Radmark, O.; Samuelsson, B.; Ng, C. F.; Funk, C. D.; Loscalzo, J.
Analysis of a nucleotide-binding site of 5-lipoxygenase by affinity labelling: binding characteristics and amino acid sequences, 351:697
Zhang, Z.-Z.
——; Nirasawa, S.; Nakajima, Y.; Yoshida, M.; Hayashi, K.

© 2001 Biochemical Society

Function of the n-terminal propeptide of an aminopeptidase from *vibrio proteolyticus*, 350:671
Zhao, J., *See* Hayek, S. M.; Oleinikov, A. V.
Zhao, L.-X.
——; Zhou, C.-J.; Tanaka, A.; Nakata, M.; Hirabayashi, T.; Amachi, T.; Shioda, S.; Ueda, K.; Inagaki, N.
Cloning, characterization and tissue distribution of the rat ATP-binding cassette (ABC) transporter ABC2/ABCA2, 350:865
Zhao, S., *See* Tu, Q.; Zheng, L.
Zhao, X., *See* Yan, X.
Zheng, L.
——; Yu, L.; Tu, Q.; Zhang, M.; He, H.; Chen, W.; Gao, J.; Yu, J.; Wu, Q.; Zhao, S.
Cloning and mapping of human *PKIB* and *PKIG*, and comparison of tissue expression patterns of three members of the protein kinase inhibitor family, including PKIA, 349:403
Zhou, C.-J., *See* Zhao, L.-X.
Zhu, C., *See* Balzarini, J.
Zhu, C.-C.
——; Wojcikiewicz, R. J. H.
Ligand binding directly stimulates ubiquitination of the inositol 1,4,5-trisphosphate receptor, 348:551
Zhu, P.-H., *See* Xia, R.-H.
Zhu, X., *See* Hayek, S. M.; Yan, X.
——; Tang, G.; Galili, G.
The catabolic function of the α-aminoadipic acid pathway in plants is associated with unidirectional activity of lysine–oxoglutarate reductase, but not saccharopine dehydrogenase, 351:215
Zhu, Y. X., *See* Sliva, D.
Zilliacus, J., *See* Hulkko, S. M.
Zimmermann, H., *See* Braun, N.
Zini, M., *See* Stefanelli, C.
Zinnerman, M., *See* Jenkins, S. M.
Zitt, C., *See* McKay, R. R.
Zlokovic, B., *See* Tokuda, T.
Zolkiewska, A., *See* Kang, Q.
Zorzano, A., *See* Enrique-Tarancón, G.
——; Fandos, C.; Palacín, M.
Role of plasma membrane transporters in muscle metabolism, 349:667
Zorzato, F.
——; Anderson, A. A.; Ohlendieck, K.; Froemming, G.; Guerrini, R.; Treves, S.
Identification of a novel 45 kDa protein (JP-45) from rabbit sarcoplasmic-reticulum junctional-face membrane, 351:537
Zou, M., *See* Shi, Y.
Zou, R., *See* Ju, H.
Zwaal, R. F. A., *See* Dekkers, D. W. C.
Zweifach, A.
——; FM1–43 reports plasma membrane phospholipid scrambling in T-lymphocytes, 349:255
Zwilling, B. S., *See* Lafuse, W. P.

© 2001 Biochemical Society

Keyword Index

VOLUMES 345-352 (2000)

Acetohydroxyacid synthase II, of *Escherichia coli*, sensitivity to herbicides and valine, 350:69
Acetylcholine receptor: see also Muscarinic acetylcholine receptor.
Acetylcholinesterase, asymmetric, heparin interaction with, 350:283
N-Acetylgalactosamine, incorporation into threonine residue of MUC2 core peptides, in colon carcinoma cells, 347:537
N-Acetylglucosamine, nucleoporin p62 *O*-linked, glucose regulation of, 350:109
N-Acetylglucosaminyltransferase II promoter, Ets regulation of, 347:511
N-Acetyllactosamine, glycosylation site-selective synthesis of, 348:507
Acidic nuclease/intracyclobutyl-pyrimidine-dimer-DNA phosphodiesterase, purification and characterisation of, 345:583
Acidocalcisomes, in malaria parasites, 347:243
Acinar cells
  lacrimal, inositol tetrakisphosphate effect on Ca^{2+} mobilisation in, 347:77
  ryanodine receptor in, 351:264
ACTH: see Adrenocorticotropic hormone.
Actin cytoskeleton
  chloride channel modification by, 352:789
  in farnesylcysteine analogue inhibition of Ca^{2+} entry into platelets, 347:183
  protein kinase B activation and, 352:617
Actin filaments
  capping state of, in erythrocyte ghosts, 349:105
  in insulin-induced GLUT4 trafficking, 346:321
Actin-depolymerising agents, deactivation of neutrophil NADPH oxidase by, 349:369
α-Actinin binding site, mapping of, in cysteine-rich protein, 350:269
Actinomycin force measurement, 350:693
Activator protein 1, in laminin γ2-chain gene promoter activation by HGF, 347:407
Active-site availability, in macromolecular catalysts, 346:117
Acyl-CoA oxidase, synthesis of, oxygen and haem and, 350:313
Acyl-CoA thioesters, inhibition of glucose 6-phosphate transporter in oilseed rape plastids by, 352:525
N-Acyl-dopamines, as cannabimimetic, 351:817
N-Acylethanolamine, stress-induced generation of, in epidermal cells, 346:369
Acylphosphatase, nucleoside triphosphatase and diphosphatase activities of, 349:43
ADAM12 (a disintegrin and metalloprotease 12), Src tyrosine kinase activation by, 352:883
ADAM28 (a disintegrin and metalloprotease 28), cloning and characterisation of, 348:21
Adaptor protein Dab2, as intracellular ligand of endocyclic receptor gp600/megalin, 347:613
Adenine nucleotide translocase-2, Sp1 and chromatin effects on, 346:93
Adenine nucleotide translocator-2 promoter, mapping of, 352:519
Adenophostin A, inositol trisphosphate receptor activation and inactivation by, 352:929
Adenosine receptors, doubly coupled A_1/A_{2A}, G_s dominance in, 352:203
Adenylyl cyclase, inhibition of, vascular smooth muscle cell atrial natriuretic peptide C receptor and, 346:313
Adenylyl transferase, liver nucleotide pyrophosphatase/phosphodiesterase as, 346:25
Adipocytes
  brown, β-adrenoceptors in, 347:643
  free fatty acid esterification in, 349:463
  GLUT4 targeting in, 350:99
  phosphodiesterase 3B in, TNF-α and cAMP down-regulation of, 346:337
  proliferation of, fatty acid effects on, PPARδ and, 350:93
Adipose tissue
  brown, retinoic acid and retinoid X receptor activation of uncoupling protein-1 gene in, 345:91
  white, fatty acid release from, 348:129
ADO, effect of *Schizosaccharomyces pombe aph1* disruption and overexpression on, 350:663
ADP/ATP carrier (*AAC3* gene), hypoxic, transcriptional regulation of, 352:893
ADP-ATP cycling assay, kinetics of, 350:237
ADP-glucose pyrophosphorylase, cyanobacterial, ultrasensitive response of, 350:139
ADP-ribosyl cyclase, from *Aplysia*, mechanism of, 349:203
ADP-ribosylation, of exoenzyme S, effect on EGF activation of Ras effector pathway, 347:217
ADP-ribosylation factor 1, restoration of exocytosis by, in mast cells, 346:63
ADP-ribosylation factor 6
  myometrial phospholipase D regulated by, protein Gβγ and, 352:491
  position of, downstream of phosphatidylinositide 3-kinase, 345:719
Adrenal gland, neuroserpin expression in, 345:595
Adrenal medulla, double C2 protein in, 351:33
α-Adrenoceptors, phosphorylation of, EGF and, 350:413
β-Adrenoceptors, in brown adipocytes, 347:643
Adrenocorticotropic hormone, phosphotyrosine phosphatase SHP2 stimulated by, protein kinase A and, 352:483
Advanced glycation end products
  in collagen, carboxymethylarginine as, 347:23
  elimination by liver sinusoidal endothelial cells, scavenger receptor mediation of, 352:233
Aflatoxin B_1 aldehyde, in liver, isolation of, 348:389
AFX, distribution patterns and binding sequences for, 349:629
Age/aging
  human cancer distribution by, auto-catalysed aneuploidy progression and, 348:487
  Maillard reaction product accumulation and, in articular cartilage collagen, 350:381
  of protein, collagen racemisation and isomerisation and, 345:473, 345:481
Aggrecan
  aggrecanase-dependent cleavage of, in IL-1-treated chondrosarcoma cells, 351:161
  catabolism of, in tendon, 350:181
  dyschondroplastic, from tibial growth plate cartilage, 351:517
Aido-keto reductase superfamily, 3α-hydroxysteroid dehydrogenase isoforms of, sex hormones and, 351:67
Ak.1 protease, purification and characterisation of, 350:321
Akt kinase, in G_i-mediated translocation of GLUT4, 345:543, 348:687
Alanine mutagenesis, of high mobility group protein-1 box B, 347:807
Alanine:glyoxylate aminotransferase, peroxisomal import of, Pex5p and, 352:409
Alcohol consumption, chronic, effect on respiration and oxidative phosphorylation of liver mitochondria, 349:519
Alcohol dehydrogenase, activities of, in mitochondrial 3-hydroxyacyl-CoA dehydrogenase, 345:139
Aldehyde dehydrogenase, $NADP^+$-dependent, crystal structure of, 349:853
Aldolase, in liver, genetic mutation in, fructose intolerance and, 350:823
Aldolase C, phosphorylation of, in mm23 proteins, 346:623
Alkaline phosphatase, non-tissue-specific mutations of, biosynthesis of, 348:633
Alkyltransferases
  benzylguanine sensitivity of lysine in, 347:527
  mutations and, 347:519
  cellular kinases of, 351:393
Allergen Asp f 13, from *Aspergillus fumigatus*, 346:423
Allergic mediators, phospholipase A_2 and, 352:311
Alloxan, effects on islets and pancreatic B cells, 352:389
Allylic isomerisation, antibody-catalysed, 346:691
Alzheimer's disease: see also Amyloid precursor peptide; β-Amyloid protein.
Amidating enzymes, novel inactivators of, 350:521
Amide bond, in cytolytic peptide, action on phospholipid membranes, 352:659
Amiloride
  epithelial Na^+ channel γ subunit promoter sensitive to, 347:105
  Na^+ exchange sensitive to, in plant and yeast cells, 351:241
Amine oxidase, semicarbazide-sensitive
  from lung microsomes, time-dependent activation of, 351:789
  in stimulation of phosphorylation, insulin activity, and glucose transport, 350:171
Amino acid(s)
  aldehydes derived from, LDL modification by, 352:693
  aromatic, dopa decarboxylase reaction with, 352:533
  colon adenocarcinoma cells supplemented with, ornithine decarboxylase in, 348:401
  direct and reversed sequence pattern analysis of, kinase site mutagenesis and, 345:733
  gene expression regulated by, 351:1
  muscle metabolism and, 349:667

© 2001 Biochemical Society

NAT1 and NAT1 arylamine acetyltransferase acceptor substrate selectivity from, 348:159
signal transduction dependent on, 351:545
translation factor regulation by, 347:399
transport of, by 4F2hc/y$^+$LAT2, 349:787
Amino acid transporter ASCT2, ion transport by, 346:705
α-Aminoadipic acid pathway, catabolic function of, lysine-oxoglutarate reductase and, 351:215
Aminopeptidase, propeptide of, in folding and inhibition, 350:671
Ammodytoxin A, charge reversal of, neurotoxicity and, 352:251
AMP: see also Cyclic AMP.
skeletal muscle mitochondrial efficiency and, 351:307
AMP-activated protein kinase
γ-subunit isoforms of, 346:659
phosphorylation regulation of, 345:437
Amplification loop, $C3b_2$-IgG complexes in, 349:217
α-Amylase
from *Bacillus* sp., starch-binding domain and, 350:477
in complex with carbohydrate and proteinaceous inhibitors, crystal structure of, 346:201
secretion from *Bacillus subtilis*, secretory protein charge and, 350:31, 351:839
β-Amyloid peptide
of Alzheimer's and Dutch cerebral haemorrhage types, oligomerisation of, 349:299
apolipoprotein E lipidation and interaction with, 348:359
degradation of, by insulin-degrading enzyme, 351:509
fractionation and characterisation of, 348:137
Amyloid precursor protein, metabolism of, cholesterol and, 348:307
Amyloidogenic polypeptides, apolipoprotein E as nonspecific promoter in, 349:77
Amyloidogenicity, tetrameric, designing transthyretin mutants with, 348:167
Androctonin, action mode of, 345:653
Aneuploidy, auto-catalysed progression of, 348:487
Angiotensin II
cADP-ribose formation stimulated by, in cardiac myocytes, 352:197
cardiac hypertrophy induced by, ERK in, 347:275
plasminogen activator inhibitor type 1 induced by, Sp1 and, in mesangial cells, 349:435
Angiotensin-converting enzyme, somatic and testicular, juxtamembrane cleavage of, 347:711
Anion conductance, substrate-gated, by amino acid transporter ASCT2, 346:705
Anion exchanger trafficking, oligosaccharide processing and, 349:51
Annexin II, mRNA association with, 348:565
Anthrax lethal factor, MAP kinase kinase susceptibility to, 352:739
Anti-apoptotic signalling pathways, used by NGF and basic FGF, 352:175
(+)-*Anti*-benzo[*a*]pyrine 7,8-dihydrodiol 9,10-epoxide, glutathione conjugate formation with, 349:693
Antibody(ies)
catalytic, active-site availability in, 346:117
coagulation-promoting single-chain, fusion protein of, 349:805
Antibody 4B2, catalytic, allylic isomerisation of, 346:691
Antibody MFE-23, crystal structure of, 346:519
Antigen MAX.3/CD84, characterisation of, 346:729
Antigen presentation, proteasome activators and, 345:1
$α_1$-Antitrypsin, Portland variant of, HIV-1 replication and, 352:91
Antizyme(s)
overexpression in heart, cardiac hypertrophy and, 350:645
polyamine transporter regulation by, 347:297
of zebrafish, 345:99
Antizyme inhibitor, induction in growth-stimulated fibroblasts, ornithine decarboxylase release and, 346:699
Ap_4A, effect of *Schizosaccharomyces pombe aph1* disruption and overexpression on, 350:663
Aplysia, ADP-ribosyl cyclase from, mechanism of, 349:203
Apolipoprotein A-I, hypochlorite modification of, 346:345
Apolipoprotein E
β-amyloid peptide interaction with, 348:359
lipidation of, 348:359
as nonspecific promoter in amyloidogenic polypeptides, 349:77
Apolipoprotein E receptor 2, VLDL binding to, lipoprotein lipase in, 347:357
Apolipoprotein H, membrane-induced conformational change in, 348:103
Apoptosis: see also Cell death.
acidic nuclease/intracyclobutyl-pyrimidine-dimer-DNA phosphodiesterase and, 345:583
drug-induced, D4-GDI cleavage by caspase-3 during, 346:777
of fibroblasts, lysophosphatidic acid prevention of, MAP kinase in, 352:135
during hypoxia-reoxygenation, serine protease inhibitor suppression of, 347:669
of normal fibroblasts, 347:543
photodynamic treatment-triggered, signalling in, 351:221
of T cells, JNK and p38 activation in, 348:93
Apoptotic ceramides, lipid metabolic changes and, 345:603
AP1: see Activator protein 1.
Aquaporins, from lentil seed, phosphorylation and oligomerisation of, 352:183
Arabidopsis thaliana
amiloride-sensitive Na^+ exchange in, 351:241
NRAMP from, in iron transport, 347:749
pyruvate dehydrogenase kinase from, serine phosphorylation by, 349:195
α-L-Arabinofuranosidases, from *Streptomyces chartreusis*, 346:9
Arachidonic acid
biosynthesis of, $Δ^5$-desaturase in, 347:719
in Rac-induced generation of reactive oxygen species, 348:525
Arginine, transport of, by 4F2hc/y$^+$LAT2, 349:787
N-Arginine dibasic convertase
isoforms of, in cytoplasm and cell surface, 349:587
transcriptional regulation of, in prostate cells, 351:755
Arginine kinase, of *Stichopus japonicus*, gene structure and substrate recognition system for, 351:579
Argininosuccinate synthase, autophagosome-associated variant isoforms of, 352:773
Arginyl residues, enzymic methylation of, in -Gly-Arg-Gly peptides, 348:573
Arterial smooth muscle, myosin phosphorylation and force development in, protein kinase C and, 352:573
Articular cartilage collagen, age-related Maillard reaction product accumulation in, 350:381
Arylamine acetyltransferases NAT1 and NAT2, amino acids imparting acceptor substrate selectivity to, 348:159
Ascorbate
effect on hypochlorous acid- and chloramine-dependent modifications of LDL, 346:491
oxidation and transport of, in microsomal vesicles of liver, 349:413
Ascorbate peroxidase, hydrogen peroxide inactivation of, 348:321
Ascorbic acid, reductive regeneration of, in diabetes, 351:313
Asialoglycoprotein receptor, lactoferrin binding to, 348:113
Asparagine, prolegumain activation by, 352:327
Aspartate aminotransferase, mitochondrial, 345:423
Aspartic acid 158, pK_a values of, in papain and caricain, 351:723
Aspergillus fumigatus
allergen Asp f 13 from, 346:423
β(1–3)glucanosyltransferase catalytic residues in, 347:741
Aspergillus niger
endopolygalacturonases of, 345:637
pectin methylesterase from, action mode of, 346:469
Aspergillus oryzae tyrosinase, copper ligands in, 350:537
Astacin family, meprin in, genomic structure of, 346:83
Atherosclerosis, vitamin C and, 346:491
Atlantic salmon, HNF1 promoter of, regulation of, 352:557
Atopic dermatitis, glucosylceramide sphingomyelin deacylase in, 350:747
ATP
Ca^{2+} release induced by, calcineurin regulation of, 348:173
effect of *Schizosaccharomyces pombe aph1* disruption and overexpression on, 350:663
ATP paradox, glucose and, in yeast, 352:593
ATP synthase
β subunit mRNA-binding proteins of, interdependence of, 346:33
chloroplast, F_1-ATPase inverse regulation by, 352:783
from *Escherichia coli*, transport site of, 347:797
precursor of, mitochondrial, rapid degradation of, 349:703
ATP-binding cassette transporter ABC2/ABCA2, cloning, characterisation, and tissue distribution of, 350:865
ATP5E gene, cloning, characterisation, and mapping of, 347:17
Atrial natriuretic peptide C receptor, adenylyl cyclase inhibition and, 346:313
AtT-20 cells, neurite-like processes in, endocrine neuroserpin expression and, 345:595
Australian elapid serum, phospholipase A_2 inhibitors from, 346:139
Autoglycosylating polypeptides, from nasturtium fruit, 347:857
Autophagic sequestration, of N-linked glycoproteins, 345:459
Autophagosome, cytosolic enzyme variant isoforms associated with, 352:773
1-Azasugar inhibitors, slow inhibition of β-glucosidase and isomaltase by, 349:211

B cells, alloxan effects on, 352:389
Bacillus phytase, inositol hexakisphosphate hydrolysis by, 352:623

© 2001 Biochemical Society

Bacillus sp., α-amylase in, starch-binding domain and, 350:477
Bacillus subtilis
CsaA from, SecA and precursor protein interaction with, 348:367
lysine 2,3-aminomutase from, 348:539
protein secretion from, secretory protein charge and, 350:31, 351:839
Bacillus thuringiensis, cytolytic toxin from, membrane pore architecture of, 350:275
Bacteria, photoreaction centre of, electron transfer in, structural changes and, 351:567
Bactericial dodecapeptides, structure-function relationships in, 349:717
Bacterioferritin, of *Escherichia coli*, *Sedum lineare* plant peroxiredoxin as homologue of, 351:107
Baculovirus-insect cell system, turnip yellow mosaic virus RNA polymerase domain in, 349:417
BAD (Bcl-2/Bcl-X antagonist causing cell death), cAMP-dependent phosphorylation of, 349:547
Banana, pyruvate kinase from, 352:875
Band 3
dimer dissociation from, 345:33
glycophorin A interactions with, 350:53
mutations of, renal tubular acidosis and ovalocytosis and, 350:41, 350:839
Basic transcription element-binding protein, mouse, cloning and analysis of, 345:529
Bax
effect on normal fibroblast apoptosis or senescence-like growth arrest, 347:543
oligomerisation of
liposome channel-forming activity and, 345:271
mitochondrial cytochrome *c* release and, 345:271
Bcl-2, effect on retinoic acid-induced growth arrest and recovery, in gastric cancer cells, 348:473
Bcl-2/Bcl-X antagonist causing cell death (BAD), cAMP-dependent phosphorylation of, 349:547
BCR/ABL gene, exon skipping in, 348:63
Benzylguanine, alkyltransferase sensitivity to
lysine in, 347:527
mutations and, 347:519
Bestatin, binding by glutamin acid 296 in leukotriene A_4 hydrolase, 345:621
Betaine aldehyde dehydrogenase, from *Pseudomonas aeruginosa*, $NADP^+$- and NAD^+-dependent reactions catalysed by, 352:675
β-oxidation pathway enzymes, respiratory chain and, specific functional assemblies between, 345:429
BFCOL1: see Binding factor of a type-1 collagen promoter.
Biglycan, catabolism of, in tendon, 350:181
Bile salt, pancreatic lipase secretion dependent on
casein kinase II phosphorylation of, 345:121
control by glucose-regulated protein, 352:865
Bilirubin production, haem oxygenase-1 expression and, in cytoprotection against oxidative stress, 348:615
Biliverdin-IXβ reductase, flavin reductase reaction catalysed by, kinetics of, 345:393
Binding factor of a type-1 collagen promoter, PTRF interaction with, 347:55
Birthweight, metabolic disorders and, 349:657
Bis(monoacylglycerol) phosphate, in uterine stromal cells, 351:795
Bleomycin resistance determinant ShBle, in *Haloferax volcanii*, 346:251
Bone, collagen racemisation and isomerisation in, 345:481
Bone sialoprotein-binding protein, from *Staphylococcus aureus*, 345:611
Boronic acid inhibitors, peptidyl, proteasome inhibition by, 346:447
Bradykinin
JAK/STAT activation by, in plasmalemmal caveolae, 351:257
MAP kinase stimulation of, 347:441
Bradyrhizobium japonicum, malonamidase E2 of, active-site residues of, 349:501
Brain, sulphotransferase-like cDNAs in, 346:857
Brain tissue, phosphorylation of dentatorubral-pallidoluysian atrophy protein complex in, 351:587
Brain tumour cells, cellular kinases of alkyltransferase in, 351:393
Branched-chain α-ketoacid dehydrogenase E2, glucocorticoid regulation of, 347:449
Breast cancer cells
cholesteryl ester uptake by, 349:559
glutaminase in, 345:365
protein kinase B/Akt activation and phosphorylation by growth factor in, 352:475
Brush-border membrane
fructose transport across, phorbol myristate acetate stimulation of, GLUT2 in, 350:149
glucose absorption and, GLUT2 in, 350:155
regulation of, MAP kinase and phosphatidylinositol 3-kinase in, 350:163

C2 protein, double, in adrenal medulla, 351:33
$C3b_2$-IgG complexes, interaction with properdin, factor B, and factor H with, 349:217
C_{27}-sterols, 27-oxygenation of, in kidney, 347:349
Ca^{2+} homoeostasis endoplasmic reticulum protein (CHERP), cloning of, 348:189
Ca^{2+}-dependent ATPase, phospholamban regulation of, 351:197
Cacospongia linteiformis, cyclolinteinone from, effect on NF-κB activation, 346:793
Caco-2 cells, mitochondrial HMG-CoA synthase promoter in, CREB binding site in, 345:201
Cadherins, heterophilic interactions among, 349:150
cADP-ribose, bidirectional Ca^{2+} signalling by, in neuronal cells, 345:207
Caenorhabditis elegans, heat shock protein HSP43 of, 349:409
Calcineurin
ATP-induced Ca^{2+} release regulation by, 348:173
regulation of ryanodine receptor and Ca^{2+} release channels by, in heart, 352:61
Calcitonin gene-related peptide, activation of, by cAMP and NGF, 345:233
Calcium
m-calpain activation by, EF-hands in, 348:37
cytoplasmic, in secretory response to extracellular cations in parathyroid cells, 352:353
entry into platelets
farnesylcysteine analogue inhibition of, 347:183
tyrosine kinase activation of, 351:429
free, concentration of, Ca^{2+}/calmodulin-dependent enzyme regulation by, 350:299
gelsolin modules 1 and 2 conformational stability dependent on, 350:873
in heart
binding to and activation of myofibrils, 346:393
estimation of, 346:385
myo-inositol trisphosphate binding modulation by, 346:275
store-operated entry and extrusion of, in thyroid cells, hydrogen peroxide and, 351:47
Calcium channel
β-subunit-induced gating of, reversibility of, 348:657
calcineurin regulation of, in heart, 352:61
dihydropyridine sensitivity of, 347:829
inositol trisphosphate-gated, in ureteric myocytes, 349:323
Calcium homoeostasis, inositol trisphosphate 3-kinase B and, 352:709
Calcium mobilisation, inositol tetrakisphosphate effect on, in lacrimal acinar cells, 347:77
Calcium regulation domain, of skeletal muscle ryanodine receptor, 351:57
Calcium release
ATP-induced, calcineurin regulation of, 348:173
calcineurin regulation of, in heart, 352:61
inositol trisphosphate induction of, mitochondrial depolarisation and, 347:593
by sperm and eggs, phospholipase C and, 346:743
Calcium signalling
bidirectional, by cADP-ribose, in neuronal cells, 345:207
p130 protein inhibition of, 349:357
Calcium stores, inositol trisphosphate and, 351:683
Calcium transients, effect on protein kinase C in activation of $p34^{cdc2}$ phosphorylation state, 349:489
Calcium-binding mitochondrial carriers, second member of, 345:725
Calcium-bound calmodulin, changes on binding of trifluoperazine, 347:211
Calcium/calmodulin, inositol trisphosphate receptor inhibition by, 345:357
Calcium/calmodulin-dependent enzymes, regulation by calmodulin isoforms and free Ca^{2+} concentration, 350:299
Calcium-regulated kinase, in lentil seed aquaporin phosphorylation and oligomerisation, 352:183
Caldibacillus cellulovorans, thermostabilising xylan binding domain of, 346:583
Calmodulin
Ca^{2+}-bound, changes on binding of trifluoperazine, 347:211
isoforms of, Ca^{2+}/calmodulin-dependent enzyme regulation by, 350:299
myo-inositol trisphosphate binding modulation by, 346:275
Calmodulin inhibitors, protein shedding and, 346:359
Calpain
calcium activation of, EF-hands in, 348:37
c-Jun and c-Fos protein degradation by, 345:129
$G_s\alpha$ protein activation by, 347:733
regulation of, in differentiating myoblasts, 351:413
Calpastatin, regulation of, in differentiating myoblasts, 351:413
Calponin, molecular conformation of, serine modulation of, 350:579
Cambialistic superoxide dismutase, from *Porphyromonas gingivalis*, metal-specific activity of, 345:345
Campylobacter jejuni, porin Omp50 from, 352:629
Cancer

© 2001 Biochemical Society

in humans, age distribution of, autocatalysed aneuploidy progression and, 348:487
treatment of, p53 pathway manipulation in, 352:1
Candidacidal activity, in recombinant N-terminal region of salivary mucin MUC7, 345:557
Cannabimimetic, *N*-acyl-dopamines as, 351:817
Cannabinoid receptors
protein kinase B/Akt activation and, 347:369
in vascular endothelial cells, 346:836
Carbohydrate inhibitor of α-amylase, complex of, crystal structure of, 346:201
Carbohydrate-binding modules
from *Rhodothermus marinus* thermostable xylanase, 345:53
with xylan binding affinity, 350:933
Carbonyl reductase, autocatalytic modification of, 350:89
Carboxyl ester lipase gene, pancreatic, tissue-specific regulation of, 351:367
Carboxymethylarginine, as advanced glycation end product in collagen, 347:23
Carboxypeptidase A, latexin inhibition of, in peritoneal mast cells, 346:817
Carcinogen-induced tumours, auto-catalysed aneuploidy progression and, 348:487
Cardiac: see also Heart.
Cardiac endothelial cells, tetrahydrobiopterin deficiency in, nitric oxide production and, 349:353
Cardiac hypertrophy
angiotensin II-induced, ERK in, 347:275
antizyme overexpression and, 350:645
Cardiac myocytes
adaptive cytoprotection in, p42/44 mitogen-activated protein kinase in, 350:891
angiotensin II-stimulated formation of cADP-ribose in, 352:197
malonyl-CoA metabolism in, 350:61
Cardiolipin, peroxidation of, cytochrome *c* release and, 351:183
Cardiolipin-lacking yeast mitochondria, oxidative phosphorylation in, 347:687
Caricain, aspartic acid 158 pK_a values in, 351:723
Carnitine octanoyltransferase, hepatic etomoxir inhibition of, 351:495
Carnitine palmitoyltransferase, hepatic, reconstitution of, 349:179
Carotenoid 3,4-desaturase, from *Rubrivavax gelatinosus*, in revealing reaction sequence to spheroidene and spirilloxanthin, 349:635
Cartilage, from tibial growth plate, dyschondroplastic aggrecan from, 351:517
Cartilage growth factor, of link peptide, membrane proteinase degradation of, 349:473
Cartilage proteoglycan, mannosamine breakdown of, 345:495
Casein, mRNA poly(A) tail length of, in lactating mammary gland, 347:579
Casein kinase, Golgi, purification of from bovine milk, 350:463
Casein kinase I, from *Dictyostelium discoideum*, 349:527
Casein kinase II
phosphorylation of pancreatic bile salt-dependent lipase by, 345:121
prion protein modulation of, 352:191
Caspase(s), specificity of, 350:563
Caspase-3
D4-GDI cleavage by, during drug-induced apoptosis, 346:777
prodomain of, 349:135
Caspase-9, cytochrome *c*-mediated activation of, serine protease inhibitors and, during hypoxia-reoxygenation, 347:669
Catalase A, synthesis of, oxygen and haem and, 350:313
Catalytic antibodies, active-site availability in, 346:117
Cathepsin, in placental labyrinthine layer, 349:689
Cathepsins B and L, papain subsite interaction with, 347:123
Cationic amino acids, in Na^+/dicarboxylate co-transporter, 350:677
Cbl, in integrin $\alpha_{IIb}\beta_3$-mediated platelet activation, phosphoinositide 3-kinase and Syk and, 351:669
Cbl adaptor protein, in integrin coupling to MAP kinase signalling, 345:385
CCAAT transcription factor: see also Nuclear factor I/CCAAT transcription factor.
CCAAT/enhancer-binding protein
in PEPCK gene transcription by E1a and cAMP, 352:335
thapsigargin suppression of, in suppression of phorbol ester-dependent activity of involucrin promoter, 350:791
CD38/NAD^+ glycohydrolases, mechanism of, 349:203
CD38, human, bovine ecto-NAD^+ glycohydrolase identity to, 345:43
CD40, IgE isotype switching and, kinases and, 350:735
CD46 gene, silencer of, regulation of, 351:353
CD84, MAX.3 antigen identity with, characterisation of, 346:729
Cdc28, phosphorylation of, *Saccharomyces cerevisiae* protein kinase CKII in, 351:143
cdc25 domain, functional C-terminal, 347:653
Cdx-2, HNF1α interaction with, effect on lactase-phlorizin hydrolase gene expression, 346:529
C/EBP: see CCAAT/enhancer-binding protein.
Cefepime, diffusion through F porin channel, 348:223
Cell, preactivation STATs in, 345:417
Cell cycle
in mitosis and meiosis, in yeast, 349:1
progression through, ethanol, Zn^{2+}, and insulin interaction in, 346:241
Cell cycle position, effect on normal fibroblast apoptosis or senescence-like growth arrest, 347:543
Cell death: see also Apoptosis.
green fluorescent protein-polyalanine aggregates in, 348:15
heat shock-induced, glutathione in, 352:71
Cell respiration, effect of high concentrations of nitric oxide on, 346:407
Cellobiohydrolase II, cellobiosyl fluoride hydrolysis by, 345:315
Cellobiose phosphorylase, non-covalent enzyme-substrate interactions catalysed by, 351:649
Cel6B endoglucanase, in *Humicola insolens* family, 348:201
Centrosomes, protein phosphatase 4 binding subunit at, 347:845
Ceramides, apoptotic, lipid metabolic changes and, 345:603
Cerrophidion (*Bothrops*) *godmani*, phospholipase A_2 myotoxin inhibitors from, 346:631
c-Fos protein, calpain degradation of, 345:129
Chalcone synthase, cyclisation reactions in, important amino acids in, 350:229
Chemokine expression, homocysteine stimulation of, in vascular smooth muscle cells, 352:817
Chemotherapeutic target, *Toxoplasma gondii* pyrophosphatase as, 349:737
CHERP (Ca^{2+} homoeostasis endoplasmic reticulum protein), cloning of, 348:189
Chicken ovalbumin upstream promoter transcription factor, Atlantic salmon HNF1 promoter regulation by, 352:557
Chitosan mucoadhesive systems, atomic force microscopy of, 348:557
Chloramine, LDL modifications dependent on, vitamin C effect on, 346:491
Chloride, in iron release from transferrin, 350:909
Chloride channel
actin cytoskeleton modification of, 352:789
putative plant voltage-dependent, cell localisation of, 348:291
1-Chloro-2,4-dinitrobenzene, glutathione conjugate formation with, 349:693
Chlorophyll biosynthesis, effect of cysteine modification in magnesium chelatase on, 352:435
Chloroplast
ATP synthase of, F_1-ATPase inverse regulation by, 352:783
H^+-ATP synthase of, dye-ligand chromatography of, 346:41
import of transit peptide haemoprotein in, cytochrome fused to, 351:377
Cholesterol, amyloid precursor protein metabolism and, 348:307
Cholesterol 7α-hydroxylase, genetic activity of, PPAR-α and, 351:747
Cholesterol 7α-hydroxylase gene promoter, insulin down-regulation of, 347:147
Cholesterol synthesis, steroidogenic factor 1 and, 350:785
Cholesteryl ester
breast cancer cell uptake of, 349:559
hydrolysis of, in macrophages, 352:125
Choline acetyltransferase, recombinant human, catalytic activity and, 349:141
Chondroitin sulphate linkage regions, fingerprinting of, 347:339
Chondrosarcoma cells, IL-1-treated, aggrecanase-dependent cleavage of aggrecan in, 351:161
Chromatin, adenine nucleotide translocase-2 stimulation and, 346:93
c-Jun N-terminal kinase
activation of
by MAP kinase kinase, 352:145
oxygen radical effect on, in lectin-stimulated thymocytes, 347:173
in T cell apoptosis, 348:93
regulation by MAP kinase phosphatase, in differentiating P19 cells, 352:701
c-Jun protein, calpain degradation of, 345:129
c-*myb*, anti-sense oligonucleotide to, inhibition of leukaemic cells growth by, 346:295
Coagulation Factor IX, lysine 316 role in, 350:701
Coagulation-promoting molecule, antigen-specific, 349:805
COL2A1 gene, inappropriate expression of, 345:377
Collagen
advanced glycation end product in, carboxymethylarginine as, 347:23
articular cartilage, age-related Maillard reaction product accumulation in, 350:381
polymorphonuclear leucocyte interaction with, glycoxidation and, 350:777
racemisation and isomerisation of as marker of protein aging, 345:473

© 2001 Biochemical Society

as marker of tissue turnover, 345:481
recombinant type X, prolyl 4-hydroxylase co-transfection with, 352:907
Collagen fibril formation, HSP47 inhibition of, 349:877
Collagen gene promoters, PTRF and BF-COL1 in binding of, 347:55
Colon cancer
IL-6 regulation in, 349:765
vasoactive intestinal peptide/pituitary adenylate cyclase-activating peptide receptor 1 promoter in, 347:623
Colon carcinoma cells
N-acetylgalactosamine incorporation into MUC2 core peptide threonine residue in, 347:537
matrix metalloproteinase secretion in, lithocholic acid and, 349:189
mucin *MUC5B* gene expression in, 348:675
supplemented with amino acids, ornithine decarboxylase in, 348:401
Connexins, assembly into gap junctions, 349:281, 350:943
Copper ligands, in *Aspergillus oryzae* tyrosinase, 350:537
Copper supplementation, and Wilson disease protein in mammary gland, 352:565
Copper uptake, by Fe(II) permease, in yeast, 351:477
Copper/zinc superoxide dismutase, nitric oxide regulation of, keratinocyte proliferation and, 346:719
Coronary endothelial cells, tetrahydrobiopterin deficiency in, nitric oxide production and, 349:353
Cotton leafworm, 3-dehydroechysone 3α-reductase from, molecular characterisation of, 349:239
Creatine
depletion of, skeletal muscle mitochondria and, 350:547
uptake and transporters of, in muscle, 349:667
Creatine kinase
S-glutathiolation of, 347:821
in skeletal muscle cells, β-enolase interaction with, 346:127
CREB: see Cyclic AMP response element-binding protein.
c-Rel protein, redox-sensitive cysteine residue of, protein phosphorylation and, 352:583
CrkII phosphorylation, hepatocyte growth factor/scatter factor receptor induction of, 350:925
Cryptococcus neoformans phospholipase, purification and characterisation of, 347:431
α-Crystallin, in GADPH renaturation, 345:467
CsaA, of *Bacillus subtilis*, SecA and precursor protein interaction with, 348:367
c-SRC, prolactin stimulation of, Jak2 in, 345:17
CUE domains, sequence analysis of, 351:527
Culex mosquitoes, insecticide resistance in, 346:17
Cuphea wrightii embryo, 3-oxoacyl-(acyl carrier protein) synthase III in, 345:153
Cyanobacteria, ADP-glucose pyrophosphorylase of, ultrasensitive response of, 350:139
Cyclic adenosine, BAD phosphorylation by, 349:547
Cyclic ADP-ribose, angiotensin II-stimulated formation of, in cardiac myocytes, 352:197
Cyclic AMP
adipocyte phosphodiesterase 3B down-regulation by, 346:337
calcitonin gene-related peptide activation by, 345:233
IGF-I signalling pathways augmented with, 348:409
in IL-1-stimulated macrophage colony-stimulating factor expression, 350:115
PEPCK genetic transcription by, CREB and C/EBPα in, 352:335
thyrocyte proliferation stimulated by, phosphatidylinositol 3-kinase, protein kinase B, and ribosomal S6 kinases in, 348:351
Cyclic AMP response element-binding protein
binding site for, in mitochondrial HMG-CoA synthase promoter, 345:201
in PEPCK gene transcription by E1a and cAMP, 352:335
phosphospecific cell-based ELISA for, 350:717
rolipram effects on, 347:571
Cyclic GMP, mesangial cell relaxation dependent on, myosin light chain phosphatase activation and, 346:217
Cyclin-dependent kinase threonine phosphorylation, MAP kinase regulation of, 349:869
Cyclin-dependent kinase-related kinase, from *Plasmodium falciparum*, 347:255
Cyclolinteinone, NF-κB activation and, 346:793
Cyclo-oxygenase, cyclolinteinone inhibition of, 346:793
Cystathionine γ-lyase, development and expression of, 347:291
Cysteine
modification in Chl subunits of magnesium chelatase, enzyme inactivation and, 352:435
redox-sensitive, c-Rel protein phosphorylation and, 352:583
Cysteine protease, peptidyl epoxide inactivation of, 346:71
Cysteine proteinase, of *Leishmania mexicana*, expression and characterisation of, 347:383
Cysteine-rich protein, mapping of α-actinin binding site within, 350:269
Cystic fibrosis, Ras inhibition by exoenzyme S in, 14–3–3 protein and, 349:697
Cytochrome, chloroplast transit peptide haemoprotein fused to, 351:377
Cytochrome b_5 tail, membrane-inserted conformation of, 352:117
Cytochrome *c*
caspase-9 activation mediated by, serine protease inhibitors and, during hypoxia-reoxygenation, 347:669
Fe(III) respiration and, in *Shewanella frigidmarina*, 349:153
mitochondrial release of, Bax oligomerisation and, 345:271
polyamine-induced release of, from heart mitochondria, 347:875
release of
from liver mitochondria, 348:343
mitochondrial phospholipid hydroperoxide glutathione peroxidase inhibition of, 351:183
Cytochrome *c* oxidase, in myoblast differentiation, subunit VIa in, 351:133
Cytochrome *c* promoter, E2F modulation of, 351:251
Cytochrome P450, nuclear receptor regulation of, 347:321
Cytochrome P450 2D6, active site of, serine 304 role in, 345:565
Cytokine(s)
as enhancer of Mn-superoxide dismutase gene promoter, 347:233
gp130 protein-related receptors and, membrane-proximal region of, 345:25
Cytokine signalling-1, lipopolysaccharide-induced suppression of, IFN-α/β in, 349:99
Cytolytic peptide, amide bond in, action on phospholipid membranes, 352:659
Cytolytic toxin, from *Bacillus thuringiensis*, membrane pore architecture of, 350:275
Cytoplasm, nardilysin isoforms in, 349:587
Cytosine methylation, of Sp1, in lung epithelial gene *T1α* expression, 350:883
Cytoskeleton, actin: see Actin cytoskeleton.

D4-GDI, caspase-3 cleavage of, during drug-induced apoptosis, 346:777
Dab2 protein, as intracellular ligand of endocyclic receptor gp600/megalin, 347:613
DAF-16 homologues, distribution patterns and binding sequences for, 349:629
Danio rerio, antizymes of, 345:99
Death-associated protein 3, glucocorticoid receptor interaction with, 349:877
Decorin
catabolism of, in tendon, 350:181
fibroblast expression of, ERK1,2 and, 349:19
Defensin-like peptide-2, from platypus venom, 348:649
Defensins, antimicrobial activity of, functional elements for, 347:633
Dehydroascorbic acid, uptake of
in keratinocyte cell, 345:665
respiratory burst and, in HL-60 cells, 345:195
3-Dehydroechdysone 3α-reductase, molecular characterisation of, 349:239
Dendritic cells, MAX.3/CD84 expression on, 346:729
Dentatorubral-pallidoluysian atrophy protein complex, phosphorylation of, in brain tissue, 351:587
Deoxyhypusine synthase, binding of NAD and spermidine to, 352:851
Dermatitis, atopic, glucosylceramide sphingomyelin deacylase in, 350:747
Δ^5-Desaturase, in arachidonic acid biosynthesis, 347:719
Desulfovibrio africanus, ferredoxin III of, 346:375
Diabetes
impaired ascorbic acid reductive regeneration in, 351:313
myocardial lipid alterations in, 352:79
Diabetes mellitus, type 2, glycose metabolism programming in, 349:657
Dictyostelium discoideum
casein kinase I from, 349:527
phosphatidylinositol transfer proteins from, 347:837
Diet, orthophosphate-deficient, liver glucose-6-phosphatase in, 345:767
Digestive organs, of zebrafish, *fzt-f1* gene in, 348:439
Dihydrodiol/3α-hydroxysteroid dehydrogenase isoenzyme AKR1C4, histidine 216 role in, 352:685
Dihydropteridine, N^5-substituted tetrahydrobiopterin effects on, 348:579
Dihydropyridine, calcium channel sensitivity to, 347:829
1-(3′,4′-Dimethoxyphenyl)propene, lignin peroxidase initiation of, 347:585
Disintegrin and metalloprotease 28 (ADAM28), cloning and characterisation of, 348:21
Disulphide bond pattern, of EMF-10, 345:573
DNA
GC-rich, Sp1 interaction with, nuclear receptors in, 352:763
mitochondrial, oxidative stress effect on, in human cells, 348:425

© 2001 Biochemical Society

transcription factor interaction with, in hepatocellular carcinoma heparan sulphate, 350:245
DNA damage, GADD34 interaction with Hsp40 induced by, 352:795
DNA enzymes, RNA-cleaving, HIV-1 gene expression inhibited by, 352:667
DNA metabolism, acidic nuclease/intracyclobutyl-pyrimidine-dimer-DNA phosphodiesterase and, 345:583
DNA polymerase, inhibition by triterpenoids, 350:757
DNA repair, in yeast extract, 347:363
DNA replication
in *Leishmania infantum* histone synthesis, 346:99
meiotic cell cycle controls and, in yeast, 349:1
DNA supercoiling, DNA replication and, 348:375
DNA topoisomerase, inhibition by triterpenoids, 350:757
DNA-binding transactivator, heterogeneous nuclear ribonucleoprotein D0 as, 348:151
DNA-protein-cysteine *S*-methyltransferase, methylated, phosphorylation of, 352:801
Dodecapeptides, bactericidal, structure-function relationships in, 349:717
Dopa decarboxylase, reaction with aromatic amino acids, 352:533
Drug-albumin interaction, arginine 410 and tyrosine 411 in, 349:813
Dutch cerebral haemorrhage β-amyloid peptide, oligomerisation of, 349:299
dUTP nucleotidohydrolase, from *Leishmania major*, 346:163
Dynamin, *EEN* gene family interaction with, 348:447
Dynamin I gene promoter, in neuronal cells, 351:661

E1a, PEPCK genetic transcription by, CREB and C/EBPα in, 352:335
E2F, cytochrome *c* promoter modulation by, 351:251
ECEL1 gene, in nervous control of respiration, organisation and chromosomal localisation of, 346:611
Ecto-NAD^+ glycohydrolase, bovine splenic, cloning of, 345:43
Edg-1 and Edg-3, in sphingosine 1-phosphate-stimulated proliferation and migration of endothelial cells, 348:71
EEN gene family, expression and protein-binding studies of, 348:447
EF-hands, in activation of m-calpain by calcium, 348:37
EGF: see Epidermal growth factor.
Eggs, Ca^{2+} releasing ability and phospholipase C in, 346:743
Electron transfer, in bacterial photoreaction centre, structural changes and, 351:567
Electron-transferring flavoprotein, purification and functions of, 345:429
Electrostatic interactions, effect on GST Sigma class, 347:193
Embryonic myoblast, myogenesis in, MAPS translocation during, 347:139
EMF-10, disulphide bond pattern and molecular modelling of, 345:573
Endocrine cells
neuroserpin expression in, 345:595
syncollin targeting in, 350:637
Endocyclic receptor gp600/megalin, Dab2 as intracellular ligand of, 347:613
Endoglucanase Cel6B, in *Humicola insolens* family, 348:201
Endolyn, cloning and targeting of, 345:287
Endonuclease activity, of lipocalins, 347:815
Endonucleases, class II apurinic/apyrimidinic, in malaria parasite, 345:85
Endopeptidase 24.15, inhibitors of, 345:351
Endoplasmic reticulum
Ca^{2+} homoeostasis protein in, cloning of, 348:189
immunoproteasome association with, 352:611
N-oligosaccharide processing reactions in, 348:1
Endoplasmic reticulum proteins, in Ca^{2+} signalling during megakaryocytic differentiation, 350:723
Endoplasmic reticulum-associated degradation pathway, proteins of, 351:527
Endopolygalacturonases, of *Aspergillus niger*, 345:637
Endothelial cells
anti-coagulant activity of tissue factor pathway inhibitor in, oxidised LDL and, 352:277
coronary, tetrahydrobiopterin deficiency in, nitric oxide production and, 349:353
liver sinusoidal, advanced glycation end products elimination by, scavenger receptor mediation of, 352:233
sphingosine 1-phosphate-stimulated proliferation and migration of, lipid receptors Edg-1 and Edg-3 in, 348:71
vascular: see Vascular endothelial cells.
Endothelial growth factor: see also Vascular endothelial growth factor.
Endothelium, p120/p100 dephosphorylation in, VEGF and, 346:209
Endotoxin-neutralising dodecapeptides, structure-function relationships in, 349:717
Endurance training
mitochondrial proton leak and, 351:805
skeletal muscle mitochondria and, 350:547
β-Enolase, interaction with skeletal muscle cytosolic creatine kinase, 346:127
Enterobacter cloacae, F porin channel of, diffusion of norfloxacin, cefepime, and spermine through, 348:223
Epidermal carcinoma cells, photosensitised, apoptosis of, 351:221
Epidermal cells, stress-induced generation of *N*-acylethanolamine in, 346:369
Epidermal growth factor
α_{1b}-adrenoceptor phosphorylation and, 350:413
GST regulation by, effect of GST Pi class on, 349:225
Ras effector pathway activation by, exoenzyme S ADP-ribosylation and, 347:217
translation factor regulation by, 347:399
Epidermal growth factor domain, in polydom, 352:49
Epidermal growth factor receptor
ligand binding affinity of, thermodynamic mixing and, 352:99
in peptide YY Y1 receptor activation of MAP kinase, 350:655
protein-tyrosine phosphatase-mediated transactivation of, 347:441
Epidermal growth factor receptor kinase, in m3 muscarinic acetylcholine receptor coupling to MAP kinase, 348:381
Epidermal growth factor-like module, of protein S, activated protein C binding to, 349:757
Epidermal growth factor-transforming growth factor-α chimaera, epitope mapping by, 349:267
Epirubicin, apoptosis induced by, D4-GDI cleavage by caspase-3 during, 346:777
Epithelial cells, in gut, peptide YY Y1 receptor activation of MAP kinase in, 350:655
Epithelium
Na^+ channel in, Nedd4 interaction with, 345:503
oesophageal, *frizzled* gene in, 349:829
Epoxyalkyl glycosides, as active-site markers of xylanases, 347:865
Equinatoxin II, tryptophan mutants of, structure and function of, 346:223
Eristocophis macmahoni venom, integrin antagonist from, disulphide bond pattern and molecular modelling of, 345:573
ERK: see Extracellular signal-regulated protein kinase *entries*.
Erythroblastic differentiation, sodium butyrate induction of, G proteins in, 346:455
Erythrocyte(s)
band 3 of: see Band 3.
fructosamine conversion to 3-phospho derivative in, 352:835
glycophorin A-band 3 interactions in, 350:53
lipid assymetry regulation by multidrug resistance protein in, 350:531
Plasmodium falciparum-infected, glutathione synthesis in, 346:545
Erythrocyte ghosts, actin filament capping state in, 349:105
Escherichia coli
acetohydroxyacid synthase II of, sensitivity to herbicides and valine, 350:69
ATP synthase from, transport site of, 347:797
bacterioferritin co-migratory protein of, *Sedum lineare* plant peroxiredoxin as homologue of, 351:107
flavodoxin oxidoreductase of, NADPH binding site of, 352:257
isoprenoid biosynthesis in, methylerythritol 4-phosphate pathway for, 346:737
maltodextrin phosphorylase from, thermal denaturation of, 346:255
quinoprotein glucose dehydrogenase apoenzyme activation in, kinetics and thermodynamics of, 350:917
recombinant Ty1 reverse transcriptase in, 348:337
σ^N interaction with RNA polymerase core enzyme in, 352:539
Escherichia coli otsA expression, in *Saccharomyces cerevisiae tps1* mutant, trehalose metabolism and, 350:261
Esterase genes, methylation and expression of, 349:863
Ethanol
as cell cycle progression factor, 346:241
in interferon activation of p42/44 MAP kinase, 349:427
lipid-mediated effects of on phosphatidylinositol transfer protein, 348:667
N-Ethylmaleimide-sensitive factor attachment protein receptor (SNARE) protein, neuronal, acylation of, 345:145
N-Ethylmaleimide-sensitive fusion protein, Rab6 binding to, 352:165
Etomoxir, hepatic, carnitine octanoyltransferase inhibition by, 351:495
Ets, *N*-acetylglucosaminyltransferase II promoter regulation by, 347:511
Eukaryotic initiation factor, in maize, translational regulation of, 351:825
Eukaryotic initiation factor 2α kinase homologues, pancreatic, mediation of endoplasmic reticulum stress response by, 346:281
Eukaryotic initiation factor 4F, ischaemia-induced changes in, 351:327
Eukaryotic translation initiation factor 2, subunit interactions in, 347:703
Exercise, muscle contraction in, insulin receptor substrate-1/2-associated phosphoinositide 3-kinase inhibition by, 349:775
Exocrine cells, syncollin targeting in, 350:637

© 2001 Biochemical Society

Exoenzyme S, Ras inhibition by, 14–3–3 protein in, 349:697
Exoenzyme S ADP-ribosylation, effect on EGF activation of Ras effector pathway, 347:217
Extracellular signal-regulated protein kinase(s)
activation of, 345:385
in angiotensin II-induced cardiac hypertrophy, 347:275
in Ras/Raf/MEK/ERK pathway, protein interactions and, 351:289
regulation by MAP kinase phosphatase, in differentiating P19 cells, 352:701
in regulation of GLUT5, GLUT2, and intestinal brush-border fructose absorption, 350:163
sensitivity to mitochondrial inhibition, 349:119
Extracellular signal-regulated protein kinase 1,2, in down-regulation of fibroblast decorin expression, 349:19
Extracellular signal-regulated protein kinase 3, cloning and characterisation of, 346:169
Extracellular signal-regulated protein kinase-regulated protein kinase 2 gene promoter, NF-Y and Sp3 regulation of, 347:155

F_1-ATPase, inverse regulation of, by chloroplast ATP synthase, 352:783
F porin channel, diffusion of norfloxacin, cefepime, and spermine through, 348:223
F-actin-binding protein, *in vivo* dynamics of, 345:185
Factor B, $C3b_2$-IgG complex interaction with, 349:217
Factor H, $C3b_2$-IgG complex interaction with, 349:217
Farnesyl moiety, in visual signalling, 347:163
Farnesylcysteine analogues, inhibition of platelet Ca^{2+} entry by, 347:183
FAST-2 (forkhead activin signal transducer-2), transcription mediated by, Smad2 and Smad3 differences in, 350:253
Fat cells: see Adipocytes.
Fatty acid(s)
effects on adipose cell proliferation, PPARδ and, 350:93
exchange and desaturation of, phosphatidylcholine and, in leaves, 349:127
free, esterification of, in adipocytes, 349:463
oxygenation of, 12*S*-lipoxygenase isoenzymes in, 348:329
polyunsaturated
elongation of, cDNA for, 350:765
in plasma, 345:61
release from white adipose tissue during lipolysis, 348:129
Fatty acid amide hydrolase, as cannabimimetic, 351:817
Fatty acid metabolism, in liver, malonyl-CoA decarboxylase regulation of, 350:599
Fatty acid synthase type II, of pea, inhibition of, 347:205
Fatty acid synthase-condensing enzyme, from *Cuphea wrightii* embryo, 345:153
Fatty acid synthesis, of glucose 6-phosphate transporter in oilseed rape plastids, acyl-CoA thioesters inhibition effect on, 352:525
Fatty acid-binding protein SjFABc, structure, function, and solvent exposure of, 349:377
Fatty acyl-CoAs, inhibition of glucose 6-phosphate metabolism by, in plastids, 348:145, 349:895
Fe(II), lipid peroxidation initiated by, in liposomes, 352:27
Fe(II) permease, copper uptake by, in yeast, 351:477
Ferredoxin III, of *Desulfovibrio africanus*, 346:375
Ferriprotoporphyrin IX, in β-haematin preparation, 346:249
Ferritin, from *Listeria innocua*, iron oxidation and hydrolysis reactions of, 349:783
Ferrous ions, linoleic acid hydroperoxide reaction mixture with, pentyl and octanoic acid radical formation in, polyphenol inhibition of, 346:265
Fetulin B, 350:589
FGF: see Fibroblast growth factor.
FHIT gene, association with ubiquitin-conjugating enzyme hUBC9, 352:443
Fibrinogen/angiopoietin-related protein, hepatic, 346:603
Fibroblast(s)
apoptosis of, lysophosphatidic acid prevention of, MAP kinase in, 352:135
decorin expression in, 349:19
dermal, glucocorticoid suppression of hyaluronan synthase in, 349:91
gingival and synovial, IL-1 induction of hypoxia-inducible factor 1 in, 350:307
growth-stimulated, antizyme inhibitor in, 346:699
normal, apoptosis or senescence-like growth arrest in, 347:543
polyamine biosynthesis and content in, spermine synthase deficiency and, 351:439
Fibroblast growth factor
acidic, intracellular binding protein, genetic organisation of, 352:629
basic
anti-apoptotic signalling pathways used by, 352:175
heparin-mediated dimerisation of, 345:107
Fibroblasts, of skin
phosphoinositide 3-kinase/Akt pathway in, peroxynitrite activation of, 352:219
spermine synthase-deficient, resistance to oxidative stress and UV irradiation in, 352:381
Fibronectin domains, for binding to mycobacteria, 347:725
Fibrosarcoma cells, stanniocalcin 1 and 2 secretion as phosphoproteins from, 350:453
Fish, trypanosome parasite of, mucin-like surface glycosylphosphatidylinositol-anchored glycoproteins from, 345:693
FKHR and FKHRL1, distribution patterns and binding sequences for, 349:629
Flavin reductase, reaction catalysed by biliverdin-IXβ reductase, kinetics of, 345:393
Flavodoxin oxidoreductase, NADPH binding site of, 352:257
Flavoprotein, electron-transferring, purification and functions of, 345:429
FM1–43, phospholipid scrambling and, 349:255
Focal adhesion kinase neuronal forms, tyrosine phosphorylation in, 348:119
Focal adhesion molecule, tensin as, molecular characterisation of, 351:403
Foetal development, type 2 diabetes and, 349:657
Foetus, haemoglobin J-Sardegna in, 346:193
Forkhead-type transcription factor homologues, distribution patterns and binding sequences for, 349:629
Formyl peptide receptor, mutations in, effects on signalling and chemotaxis, 352:399
c-Fos protein: see c-Fos protein.
14–3–3 protein
effect on protein kinase C-ζ coupling to Raf-1, 345:297
in exoenzyme S inhibition of Ras, 349:697
protein kinase C activation by, 347:781
in Raf-1 kinase domain regulation, 351:151
4F2hc/y^+LAT2, amino acid transport by, 349:787
Fragile histidine triad gene *FHIT*, association with ubiquitin-conjugating enzyme hUBC9, 352:443
frizzled gene, in mouse gut, 349:829
Fructosamine, conversion to 3-phospho derivative, in erythrocytes, 352:835
Fructose
absorption of, MAP kinase and phosphatidylinositol 3-kinase in, 350:163
intolerance of, liver aldolase mutation in, 350:823
metabolism of, in liver, intralobular mapping of, 349:539
transport across intestinal brush-border membrane, phorbol myristate acetate stimulation of, GLUT2 in, 350:149
Fructose-2,6-bisphosphatase: see also 6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase.
Fructose-1,6-bisphosphatase gene promoter, in liver, 351:385
Fruit, of nasturtium, sugar nucleotide-binding and autoglycosylating polypeptides from, 347:857
ftz-f1 gene, in zebrafish digestive organs, 348:439
Fungus, β(1–3)glucanosyltransferase catalytic residues in, 347:741
Furin, integrin a subunit processing by, 346:133
Fusion protein
coagulation-promoting single-chain antibody, 349:805
sensitive to *N*-ethylmaleimide, Rab6 binding to, 352:165

G protein
$\beta\gamma$ subunit of, in ADP-ribosylation factor 6-regulated myometrial phospholipase D, 352:491
GLUT4 translocation mediated by, via Akt kinase, 345:543, 348:687
GTPase activity of, RGS14 regulation of, 350:19, 351:839
μ-opioid receptor coupling with, 348:531
regulator of signalling by, protein kinase C induction of, in leukaemia cells, 352:747
in sodium butyrate-induced erythroblastic differentiation, 346:455
G protein-coupled receptor complex, receptor activity-modifying protein 1 complex with, 351:347
$G_s\alpha$ protein, calpain activation of, 347:733
GADD34, interaction with Hsp40, DNA damage induction of, 352:795
GADPH: see Glyceraldehyde-3-phosphate dehydrogenase.
β-Galactosidase, mutation and expression studies of, 348:621
$GAP1^{IP4BP}$, pleckstrin homology domain of, inositol tetrakisphosphate binding to, 349:333
Gap junctions, connexin assembly into, 349:281, 350:943
Gastric cancer cells, Bcl-2 effect on retinoic acid-induced growth arrest and recovery in, 348:473
Gastric lumen, H^+,K^+-ATPase in, solubilisation and purification of, 345:239
Gastric mucin, atomic force microscopy of, 348:557
GC-rich DNA, Sp1 interaction with, nuclear receptors in, 352:763
GDP dissociation inhibitors, drug-induced cleavage of, 346:777

© 2001 Biochemical Society

Geldanamycin, platelet aggregation and, 345:307
Gelsolin, modules 1 and 2 of, calcium-dependent conformational stability of, 350:873
Germins, wheat surface structure and, 349:309
Gerstmann-Sträussler-Scheinker syndrome, prion protein peptide in, 346:785
Gingival fibroblasts, IL-1 induction of hypoxia-inducible factor 1 in, 350:307
Glucagon (cAMP), in regulation of phosphoenolpyruvate carboxykinase genetic promoter, in hepatocytes and hepatoblastoma cells, 352:211
β(1–3)Glucanosyltransferases, catalytic residues of, in fungi, 347:741
Glucoamylase G1, maltose hydrolysis catalysed by, pH dependence of, 349:623
Glucocorticoid(s)
  hyaluronan synthase suppression by, in fibroblasts and osteoblasts, 349:91
  regulation of branched-chain α-keto-acid dehydrogenase E2 by, 347:449
  translational effector $p70^{S6k}$ inhibition by, 347:383
Glucocorticoid receptor
  death-associated protein 3 interaction with, 349:877
  selective target for, 350:123
Glucocorticoid-responsive elements, overlapping, effects on glucocorticoid and androgen receptors, 350:123
Glucokinase
  gene for, hepatocyte protein kinase B/cAkt induction of, 351:621
  glucokinase regulatory protein and, in nuclear localisation, 348:215
  glycogen synthesis by, in hepatocytes, 351:805
Gluconeogenesis, dietary phosphate deficiency and, 352:227
Glucose
  ATP paradox and, in yeast, 352:593
  fluxes in, in liver, IGF-I and, 351:39
  production of, dietary phosphate deficiency and, 352:227
  in regulation of nucleoporin p62 *O*-linked *N*-acetylglucosamine, 350:109
  translation factor regulation by, 347:399
Glucose analogues, hepatocyte glucokinase translocation by, 346:413
Glucose metabolism
  hepatic, pH and phosphorylation effects on, 347:459
  in insulin-producing cells overexpressing lactate dehydrogenase, 352:373
  programming of, in type 2 diabetes, 349:657
Glucose oxidase, of *Penicillium amagasakiense*, active-site mutants of, 347:553
Glucose 6-phosphate metabolism, acyl-CoA inhibition of, in plastids, 348:145, 349:895
Glucose 6-phosphate transporter, in oilseed rape plastids, inhibition by acyl-CoA thioesters, 352:525
Glucose transport, contraction-regulated, in heart, 346:841
Glucose transporter(s), muscle metabolism and, 349:667
Glucose transporter GLUT2
  in fructose transport across intestinal brush-border membrane, phorbol myristate acetate stimulation of, 350:149
  recruitment to brush-border membrane, glucose absorption and, 350:155
  regulation of, MAP kinase and phosphatidylinositol 3-kinase in, 350:163
Glucose transporter GLUT4
  chronic insulin effects on, metformin reversal of, 348:83
  G_i-mediated translocation of, via Akt kinase, 345:543, 348:687
  insulin-induced trafficking of, actin filaments in, 346:321
  semicarbazide-sensitive amine oxidase and, 350:171
  targeting in adipocytes, 350:99
  trafficking of, microtubule cytoskeleton in, 352:257
Glucose transporter GLUT5, regulation of, MAP kinase and phosphatidylinositol 3-kinase in, 350:163
Glucose transporter GLUT9, activity and genomic organisation of, 350:771
Glucose uptake, insulin-stimulated, microtubule cytoskeleton in, 352:267
Glucose-6-phosphatase, hepatic, in orthophosphate-deficient diet, 345:767
Glucose-regulated protein, pancreatic bile salt-dependent lipase secretion controlled by, 352:865
β-Glucosidase, slow inhibition of, by 1-azasugar inhibitors, 349:211
Glucosylceramide sphingomyelin deacylase, in atopic dermatitis, 350:747
Glucuronyl C-5, epimerisation of, in heparin/heparan sulphate, 347:69
Glucuronyl 2-O-sulphation, in heparan sulphate biosynthesis, 346:463
Glutaminase
  antisense, tumour growth and, 348:257
  in breast cancer cell, 345:365
Glutathione
  in heat shock-induced cell death, 352:71
  peroxidase activity dependent on, in trypanosome enzyme, 352:755
Glutathione conjugate formation, of (+)-*anti*-benzo[*a*]pyrine 7,8-dihydrodiol 9,10-epoxide and 1-chloro-2,4-dinitrobenzene, 349:693
Glutathione peroxidase-1, in monocytic 5-lipoxygenase activity, 349:455
Glutathione S-transferase
  Beta class of, conserved active-site residues in, 351:341
  EGF regulation of, 349:225
  4-hydroxy-2(*E*)-nonenal enantiomer detoxification by, 349:729
  in *Ochrobactrum anthropi*, modulation of, stress and, 346:553
  Pi class of, effect on EGF regulation of GST, 349:225
  Sigma class of, electrostatic interactions and, 347:193
  subunit 3 polymorphism in, reactive cysteine residue in, 350:405
Glutathione synthesis
  inhibition of, insulin action and, 349:579
  in *Plasmodium falciparum*-infected erythrocytes, 346:545
Glutathione synthetase deficiency, missense mutation kinetics in, 349:275
S-Glutathionylation, of creatine kinase, 347:821
Gly-Arg-Gly peptides, enzymic methylation of, 348:573
Glyceraldehyde-3-phosphate dehydrogenase
  autophagosome-associated variant isoforms of, 352:773
  denaturation and reactivation of, neuronal tau and, 351:233
  4-hydroxy-2(*E*)-nonenal enantiomer inactivation of, 349:729
  renaturation of, α-crystallin in, 345:467
Glycine 76, in flap pepsin, 349:169
Glycogen synthase kinase-3, in muscle cells, leucine availability and, 350:361
Glycogen synthesis, by glycogen synthase and glucokinase, in hepatocytes, 351:805
Glycolysis
  channelling of in hepatocytes, testing for with α-toxin from *Staphylococcus aureus*, 352:899
  oscillations in, in yeast, 345:321
Glycolytic cells, monocarboxylate transporter MCT4 adaptation to lactate export in, 350:219
Glycophorin A, band 3 interactions with, in erythrocytes, 350:53
Glycoprotein(s)
  folding of, endoplasmic reticulum in, 348:1
  glycosylphosphatidylinositol-anchored, mucin-like surface, from fish trypanosome, 345:693
  N-linked, macroautophagic sequestration of, 345:459
  pregnancy-specific, regulation of expression of genes for, 350:511
  spermine-induced intestinal glycosylation of, 345:69
Glycosides, epoxyalkyl, as active-site markers of xylanases, 347:865
Glycosphingolipids, phosphocholine-containing zwitterionic, of *Onchocerca volvulus*, 348:417
Glycosylation
  of glycoprotein, spermine-induced intestinal, 345:69
  of prostaglandin E_2 receptor, for sorting to plasma membrane, 350:839
Glycosylation site interdependence, oligosaccharide processing and, 348:507
Glycosylation site mutants, in insulin receptor, 347:771
Glycosylphosphatidylinositol, photoaffinity labelling of, 350:815
Glycosylphosphatidylinositol anchoring, reconstitution of, GP18 in, 351:717
Glycosylphosphatidylinositol-anchored glycoproteins, mucin-like surface, from fish trypanosome, 345:693
Glycoxidation, effect on polymorphonuclear leucocyte interaction with collagen, 350:777
GMP: see also Cyclic GMP.
Godman's viper venom, phospholipase A_2 myotoxin inhibitors from, 346:631
Golgi apparatus, casein kinase sequence of, revealed by proline-rich protein-1 peptide substrates, 351:765
Golgi casein kinase, purification of from bovine milk, 350:463
GP18, in reconstitution of glycosylphosphatidylinositol anchoring, 351:717
gp130 protein, as IL-6 signal transducer, genetic mutation and, 349:261
gp130 protein-related receptors, membrane-proximal region of, 345:25
gp600/megalin, Dab2 as intracellular ligand of, 347:613
Gramicidin S, diastereoisomeric analogues of, 349:747
Gram-positive bacterium, protein secretion from, secretory protein charge and, 350:31, 351:839
Green fluorescent protein, *in vivo* dynamics of, 345:185
Green fluorescent protein-polyalanine aggregates, cell death and, 348:15
Growth arrest, senescence-like, of normal fibroblasts, 347:543
Growth factor(s)
  protein kinase B/Akt activation and phosphorylation by, in breast cancer cells, 352:475
  thyrocyte proliferation stimulated by, phosphatidylinositol 3-kinase, protein kinase B, and ribosomal S6 kinases in, 348:351
  translation factor regulation by, 347:399
Growth plate cartilage, tibial, dyschondroplastic aggrecan from, 351:517
Growth-stimulated fibroblasts, antizyme inhibitor in, 346:699

© 2001 Biochemical Society

GST: see Glutathione S-transferase.
GTPase
LDL activation of, in platelets, 349:231
of Rab5, mechanism and function of, 346:501
Rem2 as, 347:233
GTPase activity, of G proteins, RGS14 regulation of, 350:19, 351:839
GTPase-activating protein $GAP1^{IP4BP}$, pleckstrin homology domain of, inositol tetrakisphosphate binding to, 349:333
GTP-binding proteins, in farnesylcysteine analogue inhibition of Ca^{2+} entry into platelets, 347:183
Guanine nucleotide exchange factor, Rho-specific, 352:319
Guanylate cyclase, soluble, α_1 subunit of, 346:799
Gut
epithelial cells in, peptide YY Y1 receptor activation of MAP kinase in, 350:655
frizzled gene in, in mouse, 349:829

H^+-ATP synthase
of chloroplast, dye-ligand chromatography of, 346:41
mitochondrial
biogenesis of, 346:849
translational control of, 346:849
oxidative phosphorylation genes in, 352:109
H^+-ATPase, pH regulation by, in *Trypanosoma brucei*, 346:53, 347:887
H^+-pyrophosphatase, vacuolar, in malaria parasites, 347:243
Haem, in regulation of peroxisomal protein synthesis, 350:313
Haem oxygenase-1, bilirubin production and, in cytoprotection against oxidative stress, 348:615
Haemagglutinin, binding to, antiviral activity and, 351:449
β-Haematin, preparation of, 346:249
Haemoglobin J-Sardegna, foetal and adult, 346:193
Haemopoietic cells, retinoic acid-mediated differentiation of, Myc-intron-binding polypeptide induction during, 345:535
Haemoprotein, transit peptide fused, conformation and chloroplast import of, 351:377
Haloferax volcanii, bleomycin resistance determinant ShBle in, 346:251
Harderian gland, protoporphyrin glycoconjugates from, 347:757
Hayflick limit of cultured cells, auto-catalysed aneuploidy progression and, 348:487
Heart: see also Cardiac *entries*.
antizyme overexpression in, cardiac hypertrophy and, 350:645
calcineurin regulation of ryanodine receptor and Ca^{2+} release channels in, 352:61
Ca^{2+} buffering in
binding to and activation of myofibrils, 346:393
estimation of, 346:385
contraction-regulated glucose transport in, 346:841
mitochondria of, polyamine-induced cytochrome *c* release from, 347:875
monolysocardiolipin acyltransferase in, thyroxine regulation of, 346:403
6-phosphofructo-2-kinase in, wortmannin-sensitive/insulin-stimulated protein kinase activation of, 347:305
pyruvate dehydrogenase kinase isoform expression in, 352:731
Heat shock cognate protein 70 chaperone binding site, in stress-inducible protein 1, 345:645
Heat shock protein(s)
GADD34 interaction with, DNA damage induction of, 352:795
small, association with reproductive tissues, 351:13
Heat shock protein HSP43, of *Caenorhabditis elegans*, 349:409
Heat shock protein HSP47, inhibition of collagen fibril formation by, 349:877
Heparan sulphate
biosynthesis of, glucuronyl 2-O-sulphation in, 346:463
in hepatocellular carcinoma, in interaction of DNA and transcription factor, 350:245
Heparin
asymmetric acetylcholinesterase interaction with, 350:283
basic FGF dimerisation mediated by, 345:107
Heparin binding site, in tetranectin, 347:83
Heparin/heparan sulphate, biosynthesis of, 347:69
Hepatic nuclear factor 1α, Cdx-2 interaction with, effect on lactase-phlorizin hydrolase gene expression, 346:529
Hepatic 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, pH and phosphorylation effects on, 347:459
Hepatoblastoma cells, glucagon (cAMP) and insulin regulation of phosphoenolpyruvate carboxykinase genetic promoter in, 352:211
Hepatocyte(s): see also Liver *entries*.
glucagon (cAMP) and insulin regulation of phosphoenolpyruvate carboxykinase genetic promoter in, 352:211
glucogen synthesis in, by glycogen synthase and glucokinase, 351:805
glucokinase of, translocation of by glucose analogues, 346:413
glycolysis channelling in, testing for with α-toxin from *Staphylococcus aureus*, 352:899
multidrug resistance gene in, oxygen tensions and, 350:443
protein kinase B/cAkt in, glucokinase gene induction and, 351:621
SREBP-1c transcriptional activity in, insulin and, 350:389
stellate, PDGF receptor modulation of mannose 6-phosphate/IGF-II receptor in, 345:225
Hepatocyte growth factor, laminin γ2-chain gene promoter activation by, 347:407
Hepatocyte growth factor/scatter factor receptor, CrkII phosphorylation induced by, 350:925
Hepatocyte nuclear factor 1 promoter, of Atlantic salmon, regulation of, 352:557
Herbicides, *Escherichia coli* acetohydroxyacid synthase II sensitivity to, 350:69
Herpes simplex virus, thiodeoxyuridines activity against, 351:319
Herpes simplex virus ribonucleotide reductase, characterisation of, 347:97
Heteroduplex DNA, in yeast extract, 347:363
HGF: see Hepatocyte growth factor.
High mobility group protein-1 box B, alanine mutagenesis of, 347:807
Histamine release, in mast cells, phospholipase A_2 and, 352:311
Histidine 216, role in dihydrodiol/3α-hydroxysteroid dehydrogenase isoenzyme AKR1C4, 352:685
Histone carbonylation, 351:769
Histone deacetylase HDAC8, cloning and characterisation of, 350:199
Histone synthesis, in *Leishmania infantum*, 346:99
HIV-1 gene expression, inhibition by RNA-cleaving DNA enzymes, 352:667
HIV-1 replication, α_1-antitrypsin Portland variant effect on, 352:91
HIV-1 reverse transcriptase, mutational analysis of, 348:77
HIV-2 protease, reversible oxidation of, 346:305
H^+,K^+-ATPase, gastric, solubilisation and purification of, 345:239
HL-60 cells, respiratory burst and dehydroascorbic acid uptake in, 345:195
HMG-CoA synthase promoter: see 3-Hydroxy-3-methylglutaryl-CoA synthase promoter.
HNF: see Hepatic nuclear factor *entries*.
Homocysteine, stimulation of NF-κB and chemokine expression by, in vascular smooth muscle cells, 352:817
Homocysteine metabolism, in liver, 350:685
Human serum albumin, arginine 410 and tyrosine 411 of, in ligand binding and esterase-like activity, 349:813
Humicola insolens, cellobiosyl fluoride hydrolysis by cellobiohydrolase II in, 345:315
Humicola insolens family cellulase, structure and function of, 348:201
Huntingtin, mutant, α-synuclein-promoted aggregation of, 346:577
Huntingtin protein, *EEN* gene family interaction with, 348:447
Huntington's disease, cell death in, polyalanines in, 348:15
Hyaluronan lyase, from group B *Streptococci*, specificity of, 348:465
Hyaluronan solutions, properties of, 350:329
Hyaluronan synthases
differential expression of, 348:29
glucocorticoid suppression of, in fibroblasts and osteoblasts, 349:91
Hydrogen peroxide
ascorbate peroxidase inactivation by, 348:321
effects on store-operated calcium entry and calcium extrusion, in thyroid cells, 351:47
lysophosphatidic acid-stimulated release of, lipoxygenase and, in keratinocytes, 346:751
3-Hydroxyacyl-CoA dehydrogenase, mitochondrial, alcohol dehydrogenase and hydroxysteroid dehydrogenase activities of, 345:139
12-Hydroxyeicosatetraenoic acid, activation of p21-activated kinase by, 349:481
25-Hydroxylation, of vitamin D_3, in kidney, 347:349
3-Hydroxy-3-methylglutaryl-CoA reductase, in *Leishmania major*, 349:27
3-Hydroxy-3-methylglutaryl-CoA synthase promoter, mitochondrial, CREB binding site in, 345:201
4-Hydroxynonenal, multidrug resistant protein in protection against, 350:555
4-Hydroxy-2(*E*)-nonenal, enantiomers of, 349:729
Hydroxyphenylacetaldehyde, LDL modification by, 352:693
Hydroxysteroid dehydrogenase, activities of, in mitochondrial 3-hydroxyacyl-CoA dehydrogenase, 345:139
3α-Hydroxysteroid dehydrogenase isoforms, of aldo-keto reductase superfamily, sex hormones and, 351:67
5-Hydroxytryptamine$_{1A}$ receptor/$G_i\beta\gamma$: see Serotonin$_{1A}$ receptor/$G_i\beta\gamma$.
Hyperosmolarity, in localisation of multidrug resistance protein 2, 348:183
Hypochlorite, apolipoprotein A-I modification by, 346:345

© 2001 Biochemical Society

Hypochlorous acid, LDL modifications dependent on, vitamin C effect on, 346:491
Hypophosphatasia, non-tissue-specific mutations of alkaline phosphatase and, 348:633
Hypoxia-inducible factor 1, IL-1 induction of, in gingival and synovial fibroblasts, 350:307
Hypoxia-reoxygenation, serine protease inhibitor effect on cytochrome *c*-mediated caspase-9 activation and apoptosis during, 347:669

ICAM-1: see Intercellular adhesion molecule-1.
IFN: see Interferon.
IgE receptor, exocytosis restoration by, in mast cells, 346:63
IGF: see Insulin-like growth factor *entries*.
IL: see Interleukin *entries*.
Immediate early genes, leptin-regulated, 348:55
Immunoglobulin E isotype switching, in response to CD40, kinases and, 350:735
Immunoproteasome, endoplasmic reticulum association with, 352:611
Immunotherapy, coagulation-promoting single-chain antibody fusion protein in, 349:805
Inclusion bodies, inactive, poly-3-hydroxyalkanoate polymerase recovery from, 349:599
Infection, by intestinal parasite, mucin sialylation during, 350:805
Infective phage, selective, ligand identification by, 352:841
Influenza A virus, surfactant protein D binding to, 351:449
Inositol hexakisphosphate, hydrolysis of, by *Bacillus* phytase, 352:623
Inositol lipids, 3-phosphorylated, Tiam1 regulation by, 351:173
Inositol tetrakisphosphate, effect on Ca^{2+} mobilisation, in lacrimal acinar cells, 347:77
Inositol tetrakisphosphate 1-kinase/inositol trisphosphate 5/6-kinase, promiscuous, signal transduction by, 351:551
Inositol trisphosphate
  binding to receptor isoforms, Ca^{2+} and calmodulin modulation of, 346:275
  Ca^{2+} channels gated by, in ureteric myocytes, 349:323
  Ca^{2+} release induced by, mitochondrial depolarisation and, 347:593
  Ca^{2+} stores and, 351:683
Inositol trisphosphate 3-kinase B, Ca^{2+} homoeostasis and, 352:709
Inositol trisphosphate 3-kinase C, cloning and expression of, 352:343
Inositol trisphosphate receptors
  adenophostin A activation and inactivation of, 352:929
  Ca^{2+} and calmodulin modulation of, 345:357, 346:275
  transient receptor potential channel 1 coupling to, in platelets, 350:631
  ubiquitination of, 348:551
Inositolphosphoceramide, *Trypanosoma cruzi* phospholipases active on, 345:77
Insecticide resistance, in *Culex* mosquitoes, 346:17
Insulin
  as cell cycle progression factor, 346:241
  cholesterol 7α-hydroxylase gene promoter down-regulation by, 347:147
  chronic, effects on insulin signalling and GLUT4 endocytosis, metformin reversal of, 348:83
  glucose uptake stimulated by, microtubule cytoskeleton in, 352:267
  glutathione synthesis inhibition and, 349:579
  GLUT4 trafficking induced by, actin filaments in, 346:321
  phospholipase D activation induced by, in kidney cells, 351:613
  protein kinase stimulated by, heart 6-phosphofructo-2-kinase activation by, 347:305
  in regulation of phosphoenolpyruvate carboxykinase genetic promoter, in hepatocytes and hepatoblastoma cells, 352:211
  SREBP-1c transcriptional activity and, in hepatocytes, 350:389
  sterol regulatory element-binding protein 1 gene expression and, 349:13
  thyrocyte proliferation in presence of, phosphatidylinositol 3-kinase, protein kinase B, and ribosomal S6 kinases in, 348:351
Insulin receptor
  glycosylation-site mutants in, 347:771
  zonation of, 348:433
Insulin receptor substrate proteins, tyrosine phosphorylation of, semicarbazide-sensitive amine oxidase in, 350:171
Insulin receptor substrate-1/2-associated phosphoinositide 3-kinase, inhibition by muscle contraction, 349:775
Insulin resistance, birthweight and, 349:657
Insulin-degrading enzyme, β-amyloid peptide degradation by, 351:509
Insulin-like growth factor I
  cAMP-augmented signalling pathways in, 348:409
  and hepatic glucose fluxes, 351:39
Insulin-like growth factor II receptor: see also Mannose 6-phosphate/insulin-like growth factor II receptor.
Insulin-like growth factor-binding protein 1, genetic regulation of, by amino acids, 351:1
Insulin-producing cells, lactate dehydrogenase overexpression in, glucose metabolism in, 352:373
Integrin, coupling to MAP kinase signalling, phosphoinositide 3-kinase and Cbl adaptor protein in, 345:385
Integrin α subunits, processing of by furin and proprotein convertase 5A, 346:133
Integrin $\alpha_{IIb}\beta_3$
  platelet activation mediated by, Cbl involvement in, 351:669
  in proline-rich tyrosine kinase 2 activation of platelets, 347:561
  snake venom protein recognition by, 345:701
Integrin $\alpha_2\beta_1$, functionally important region in, 350:485
Integrin $\alpha_5\beta_1$ antagonist, from *Eristocophis macmahoni* venom, disulphide bond pattern and molecular modelling of, 345:573
Integrin β1, protein kinase C phosphorylation control by, 352:425
Intercellular adhesion molecule-1, in adhesion to leucocyte function-associated antigen-1, 351:79
Interferon(s), activation of p42/44 MAP kinase by, ethanol and, 349:427
Interferon-α/β, in lipopolysaccharide-induced cytokine signalling-1 suppression, 349:99
Interferon-γ
  activation of RANTES promoter by, 350:131
  immunoproteasome level and, endoplasmic reticulum association with, 352:611
Interleukin-1
  chondrosarcoma cells treated with, aggrecanase-dependent cleavage of aggrecan in, 351:161
  hypoxia-inducible factor 1 induction by, in gingival and synovial fibroblasts, 350:307
  inhibition of IL-6-activated STAT by, 352:913
  macrophage colony-stimulating factor expression stimulated by, cAMP and, 350:115
Interleukin-6
  induction of STAT3 transactivation and serine phosphorylation by, 347:89
  regulation of, in colon cancer, 349:765
  signalling by, gp130 genetic mutation and, 349:261
  STAT activation by, IL-1β inhibition of, 352:913
Interleukin-9 receptor, α-chain of, protein 14–3–3 interaction with, 345:741
Intestinal brush-border membrane
  fructose transport across, phorbol myristate acetate stimulation of, GLUT2 in, 350:149
  glucose absorption and, GLUT2 in, 350:155
  regulation of, MAP kinase and phosphatidylinositol 3-kinase in, 350:163
Intestinal parasite infection, mucin sialylation during, 350:805
Intestines, spermine-induced glycoprotein glycosylation in, 345:69
Involucrin promoter, phorbol ester-dependent activity of, thapsigargin suppression of, 350:791
Involucrin promoter transcriptional response element, keratinocyte-specific, 348:45
4′-Iodo-4′-deoxydoxrubicin, Leu-55Pro transthyretin interaction with, 351:273
Ion transport, by amino acid transporter ASCT2, 346:705
Iron, release from transferrin, chloride and pH in, 350:909
Iron metabolism, oxalomalate and, 348:315
Iron oxidation, of *Listeria* ferritin, 349:783
Iron regulatory proteins, 352:241
Iron respiration, cytochrome *c* in, in *Shewanella frigidmarina*, 349:153
Iron transport
  Arabidopsis thaliana NRAMP in, 347:749
  in lymphoid leukaemic cells, 345:681
Iron transporter Nramp2, isoforms of, 349:289
Irradiation, resistance to, in spermine synthase-deficient skin fibroblasts, 352:381
Ischaemia, eukaryotic initiation factor 4F changes induced by, 351:327
Ischaemia/reperfusion, ERK activation during, mitochondrial ATP production and, 349:119
Islets, alloxan effects on, 352:389
Isomaltase, slow inhibition of, by 1-aza-sugar inhibitors, 349:211
Isoprenoid biosynthesis, methylerythritol 4-phosphate pathway for, 346:737
Isoproterenol, lipolysis stimulated by, nitric oxide inhibition of, 351:485

JAK: see Janus kinase *entries*.
JAK/STAT: see Janus kinase-signal transducer and activator transcription factor.
Janus kinase 1, binding of, gp130 protein mutation and, 349:261
Janus kinase 2, in prolactin stimulation of c-SRC, 345:17
Janus kinase-signal transducer and activator transcription factor
  bradykinin activation of, in plasmalemmal caveolae, 351:257
  interferon activation of, ethanol and, 349:427

© 2001 Biochemical Society

Japan, evolution of *Trimeresurus flavoviridis* venom gland phospholipase A_2 isoenzymes in, 347:491
JNK: see c-Jun N-terminal kinase.
J-Sardegna haemoglobin, foetal and adult, 346:193
c-Jun protein: see c-Jun protein.
Juvenile hormone esterase gene, composite core promoter regulation of, 346: 233

Keratinocytes
copper/zinc superoxide dismutase regulation by nitric oxide in, 346:719
dehydroascorbic acid uptake in, 345:665
involucrin promoter transcriptional response element specific for, 348:45
lysophosphatidic acid-stimulated hydrogen peroxide release in, lipoxygenase and, 346:751
RANTES derived from, nitric oxide in, during wound repair, 347:265
α-Ketobutyrate oxidase, pyruvate oxidate conversion to, 352:717
Ketol route, in tulip lipoxygenase pathway, 352:501
Kidney
27-oxygenation of C_{27}-sterols and 25-hydroxylation of vitamin D_3 in, 347: 349
thioredoxin reductase in, 347:661
Kidney cells, insulin-induced phospholipase D activation in, 351:613

LacdiNAc-R expression, α-lactalbumin-mediated, 348:229
Lacrimal acinar cells, inositol tetrakisphosphate effect on Ca^{2+} mobilisation in, 347:77
α-Lactalbumin, lacdiNAc-R expression mediated by, 348:229
γ-Lactam, porcine pancreatic elastase complexes with, pH-jump crystallographic analysis of, 351:335
Lactase-phlorizin hydrolase gene expression, synergistic interaction between Cdx2 and HNF1α effect on, 346:529
Lactate dehydrogenase, overexpression of in insulin-producing cells, glucose metabolism in, 352:373
Lactate export, monocarboxylate transporter MCT4 adaptation to, in glycolytic cells, 350:219
Lactation, casein mRNA poly(A) tail length in, 347:579
Lactoferrin, asialoglycoprotein receptor binding by, 348:113
Laminin γ2-chain gene promoter, HGF activation of, 347:407
Larva, of *Ostertagia ostertagi*, mRNAs from, 347:763
Late target genes, leptin-regulated, 348:55
Latexin, carboxypeptidase A inhibition by, in peritoneal mast cells, 346:817
LDL: see Low density lipoprotein.
Lead compounds, of ribofuranosylnucleoside, in mitochondrial thymidine kinase inhibition, 351:167
Leaves, fatty acid exchange and desaturation in, phosphatidylcholine in, 349: 127
Lectin-stimulated thymocytes, oxygen radical effect on protein tyrosine phosphorylation and JNK-1 activation in, 347:173
Leishmania infantum, histone synthesis in, 346:99
Leishmania major
dUTP nucleotidohydrolase from, 346: 163
3-hydroxy-3-methylglutaryl-CoA reductase in, 349:27
Leishmania mexicana, cysteine proteinase of, expression and characterisation of, 347:383

Lentil seed, aquaporins from, phosphorylation and oligomerisation of, 352:183
Leptin-regulated genes, immediate early and late, 348:55
Leu-55Pro transthyretin, 4′-iodo-4′-deoxydoxrubicin interaction with, 351: 273
Leucine availability, in muscle cells, phosphatidylinositol 3-kinase, p70 S6 kinase, and glycogen synthase kinase-3 activity and, 350:361
Leucocyte(s), polymorphonuclear, collagen interaction with, glycoxidation and, 350:777
Leucocyte function-associated antigen-1, adhesion to, ICAM-1 and, 351:79
Leukaemia cells
growth of, inhibition of by anti-sense oligonucleotide to *c-myb*, 346:295
lymphoid, cellular iron transport and ribonucleotide reductase in, 345:681
protein kinase C induction of regulator of G protein signalling 16 in, TNF-α in, 352:747
TNF-α-treated, phosphatidylcholine-specific phospholipase C in, 351:459
Leukotriene A_4 hydrolase, bestatin binding by glutamic acid 296 in, 345:621
Lignin peroxidase, initiation of 1-(3′,4′-dimethoxyphenyl)propene by, 347:585
Limulin, α_2-macroglobulin interaction with, 347:679
Link peptide, cartilage growth factor of, membrane proteinase degradation of, 349:473
Linoleic acid hydroperoxide, ferrous ion reaction mixture with, pentyl and octanoic acid radical formation in, polyphenol inhibition of, 346:265
Lipase
hormone-sensitive, stimulation by skeletal muscle contractions, 351:207
pancreatic bile salt-dependent
casein kinase II phosphorylation of, 345:121
control by glucose-regulated protein, 352:865
Lipid(s)
and cardiac pyruvate dehydrogenase kinase isoform expression, 352:731
in diabetic myocardium, 352:79
in ethanol effects on phosphatidylinositol transfer protein, 348:667
free fatty acid incorporation by, 349:463
peroxidation of, protein peroxidation before, 350:215
in protein translocation, 347:601
Lipid assymetry, regulation by multidrug resistance protein, in erythrocytes, 350:531
Lipid bilayers
gramicidin S diastereoisomeric analogue interaction with, 349:747
in sorting prohormone convertase 2 into secretory pathway, 349:843
Lipid metabolism, changes in, apoptotic ceramides and, 345:603
Lipid peroxidation, Fe^{2+}-initiated, in liposomes, 352:27
Lipid phosphate phosphatase-1, mutational analysis of, 345:181
Lipid receptors Edg-1 and Edg-3, in sphingosine 1-phosphate-stimulated proliferation and migration of endothelial cells, 348:71
Lipocalin, salivary, structural characterisation and expression of, 350:369
Lipocalin placental protein 14, α_2-macroglobulin binding to, 351:503
Lipocalins, endonuclease activity in, 347: 815
Lipolysis, isoproterenol-stimulated, nitric oxide inhibition of, 351:485
Lipopolysaccharide
cytokine signalling-1 suppressor induced by, IFN-α/β in, 349:99
in localisation of multidrug resistance protein 2, 348:183
Lipoprotein(s): see also Low density lipoprotein.
sphingosine 1-phosphate interaction with, 352:809
Lipoprotein lipase, in VLDL binding to apolipoprotein E receptor 2, 347:357
Liposomes
channel-forming activity in, Bax oligomerisation and, 345:271
Fe^{2+}-initiated lipid peroxidation in, 352:27
Lipoxygenase, in lysophosphatidic acid-stimulated hydrogen peroxide release, in keratinocytes, 346:751
5-Lipoxygenase
in monocytes, glutathione peroxidase-1 and, 349:455
nucleotide binding site of, 351:697
12*S*-Lipoxygenase isoenzymes, fatty acid oxygenation and, 348:329
Lipoxygenase pathway, in tulip, ketol route in, 352:501
Listeria innocua, ferritin from, iron oxidation and hydrolysis reactions of, 349: 783
Lithocholic acid, matrix metalloproteinase secretion and, in colon cancer cells, 349:189
Liver
aflatoxin B_1 aldehyde from, 348:389
aldolase mutation in, fructose intolerance and, 350:823
carnitine palmitoyltransferase in, reconstitution of, 349:179
cells of: see Hepatocytes.
etomoxir of, carnitine octanoyltransferase inhibition by, 351:495
fibrinogen/angiopoietin-related protein in, 346:603
fructose metabolism in, intralobular mapping of, 349:539
fructose-1,6-bisphosphatase gene promoter in, 351:385
glucose fluxes in, IGF-I and, 351:39
glucose-6-phosphatase in, in orthophosphate-deficient diet, 345:767
homocysteine metabolism in, 350:685
insulin receptor protein in, 348:433
malonyl-CoA decarboxylase in, fatty acid metabolism regulation by, 350: 599
microsomal vesicles of, ascorbate oxidation and transport in, 349:413
mitochondria of
cytochrome *c* release from, 348:343
respiration and phosphorylation in, chronic alcohol consumption and, 349:519
β-naphthoflavone-binding protein in, 347:787
nucleotide pyrophosphatase/phosphodiesterase, as adenylyl transferase, 346:25
6-phosphofructo-1-kinase overexpression in, 352:921
phosphoinositide 3-kinase-dependent tauroursodesoxycholate activation of Ras in, 350:207
serine hydroxymethyltransferase in, catalytic mechanism of, 350:849
sinusoidal endothelial cells in, advanced glycation end products elimination by, scavenger receptor mediation of, 352:233
LKB1 cDNA, cloning and characterisation of, 345:673
Low density lipoprotein
hydroxyphenylacetaldehyde modification of, 352:693

© 2001 Biochemical Society

hypochlorous acid- and chloramine-dependent modifications of, vitamin C effect on, 346:491
oxidised
NF-κB activation by, 350:829
tissue factor pathway inhibitor anticoagulant activity and, 352:277
Rap1 and Ral activation by, in platelets, 349:231
Lucerne roots, proteins isolated from, relation to Nod factor, 345:255
Lung, microsomes of, semicarbazide-sensitive amine oxidase from, time-dependent activation of, 351:789
Lung epithelium, *T1α* gene expression in, Sp1 cytosine methylation and, 350:883
Lymphoid leukaemic cells, cellular iron transport and ribonucleotide reductase in, 345:681
Lymphoma proprotein convertase, palmitoylation of, 352:827
Lysine 2,3-aminomutase, from *Bacillus subtilis*, 348:539
Lysine-oxoglutarate reductase, α-aminoadipic acid pathway catabolic function and, 351:215
Lysophosphatidic acid
hydrogen peroxide release stimulated by, in keratinocytes, 346:751
in prevention of fibroblast apoptosis, MAP kinase in, 352:135
prostaglandin G/H synthase induction by, PDGF receptor in, in mesangial cells, 345:217
Lysophosphatidylcholines, unsaturated, in plasma, 345:61
Lysophospholipase, cryptococcal, purification and characterisation of, 347:431
Lysosomes, endolyn targeting to, 345:287

α_2-Macroglobulin
binding of lipocalin placental protein 13 to, 351:503
limulin interaction with, 347:679
Macrophage(s)
activated, nitric oxide synthesis by, oxygen tension and, 350:709
cholesteryl ester hydrolysis in, 352:125
MAX.3/CD84 antigen expression on, 346:729
NF-κB activation in, cyclolinteinone effect on, 346:793
Macrophage colony-stimulating factor
IL-1-stimulated, cAMP and, 350:115
regulation of urokinase plasminogen activator gene transcription by, 347:313
Magnesium, effect on proton conductance of skeletal muscle mitochondria, 348:209
Magnesium chelatase, Chl subunits of, cysteine residue modification in, enzyme inactivation and, 352:435
Magnesium-dependent kinase, in lentil seed aquaporin phosphorylation and oligomerisation, 352:183
Maillard reaction products, age-related accumulation of, in articular cartilage collagen, 350:381
Maize, eukaryotic initiation factor in, translational regulation of, 351:825
Malaria: see also *Plasmodium falciparum*.
glutathione synthesis in, 346:545
Malonamidase E2, active-site residues of, in *Bradyrhizobium japonicum*, 349:501
Malonyl-CoA, hepatic carnitine palmitoyltransferase sensitivity to, reconstitution and, 349:179
Malonyl-CoA decarboxylase, in liver, fatty acid metabolism regulation by, 350:599
Malonyl-CoA metabolism, in cardiac myocytes, 350:61
Maltodextrin phosphorylase, from *Escherichia coli*, thermal denaturation of, 346:255
Maltose hydrolysis, glucoamylase G1 catalysis of, pH dependence of, 349:623
Mammalian cells, proteasome complexes in, 346:156
Mammary gland
lactating, casein mRNA poly(A) tail length in, 347:579
Wilson disease protein in, copper supplementation and, 352:565
Manganese peroxidase, redox equilibria of, in *Phanerochaetes chrysosporium*, 349:85
Manganese-superoxide dismutase gene promoter, cytokine-inducible enhancer of, 347:233
Mannosamine, cartilage proteoglycan breakdown by, 345:495
Mannose 6-phosphate/insulin-like growth factor II receptor, PDGF receptor modulation of, in hepatic stellate cells, 345:225
β-Mannosidase 2A, catalytic nucleophile in, 351:833
MAP kinase: see Mitogen-activated protein kinase.
MAPS: see Myristoylated alanine-rich C kinase substrate.
Mast cells
exocytosis restoration in, phosphatidylinositol 4,5-bisphosphate synthesis in, 346:63
histamine release in, phospholipase A_2 and, 352:311
peritoneal, latexin inhibition of carboxypeptidase A in, 346:817
Matrix metalloproteinase secretion, lithocholic acid and, in colon cancer cells, 349:189
MAX.3/CD84 antigen, characterisation of, 346:729
Megalin: see also gp600/megalin.
Meiosis, cell cycle control in, in yeast, 349:1
MEK: see Mitogen-activated protein kinase/extracellular signal-regulated protein kinase.
Melatonin, cytosolic phospholipase A_2 regulation by, in pineal gland, 351:709
Membrane domain of band 3, in erythrocytes, dissociation of, 345:33
Membrane insertion, of trichosanthin, 349:835
Membrane proteins, cleavage of, calmodulin inhibitors and, 346:359
Menadione photochemistry, biological effects of, 350:797
Menkes-like protein, with nuclear targeting sequence, 350:855
Meprin, subunits of, genomic structure of, 346:83
Mesangial cell, cGMP-dependent relaxation of, myosin light chain phosphatase activation and, 346:217
Mesangial cells
angiotensin II-induced plasminogen activator inhibitor type 1 in, Sp1 in, 349:435
prostaglandin G/H synthase induction by lysophosphatidic acid in, PDGF receptor in, 345:217
Metabolic disorders, birthweight and, 349:657
Metalloprotease: see also ADAM28 (a disintegrin and metalloprotease 28).
Metal-specific activity, of cambialistic superoxide dismutase, from *Porphyromonas gingivalis*, 345:345
Metformin
action mechanism of, 348:607
reversal of chronic insulin effects on insulin signalling and GLUT4 endocytosis, 348:83
Methaemoglobin, pH dependent, EPR study of, 351:595
Methionine adenosyltransferase 1a promoter, cloning and functional analysis of, 346:475
Methionine sulphoxide reductase, inactivated oxidised HIV-2 protease restored by, 346:305
Methmyoglobin, pH dependent, EPR study of, 351:595
Methylerythritol 4-phosphate pathway, for isoprenoid biosynthesis, 346:737
5-Methyltetrahydrobiopterin, nitric oxide-induced autoinhibition of neuronal nitric oxide synthase in presence of, 347:475
MFE-2, crystal structure of, 346:519
Mg^{2+}-dependent ATPase, phospholamban regulation of, 351:197
Microsomal vesicles, of liver, ascorbate oxidation and transport in, 349:413
Microsomes, pulmonary, semicarbide-sensitive amine oxidase from, time-dependent activation of, 351:789
Microtubule cytoskeleton, in GLUT4 trafficking, 352:257
Milk, bovine, purification of Golgi casein kinase from, 350:463
Mitochondria
aspartate aminotransferase of, 345:423
cardiac, polyamine-induced cytochrome *c* release from, 347:875
of cardiolipin-lacking yeast, oxidative phosphorylation in, 347:687
cytochrome *c* release from, Bax oligomerisation and, 345:271
HMG-CoA synthase promoter in, CREB binding site in, 345:201
3-hydroxyacyl-CoA dehydrogenase in, alcohol dehydrogenase and hydroxysteroid dehydrogenase activities of, 345:139
inhibition of, ERK sensitivity to, 349:119
of liver
cytochrome *c* release from, 348:343
respiration and phosphorylation in, chronic alcohol consumption and, 349:519
malonyl-CoA metabolism in, in cardiac myocytes, 350:61
nitrosative damage to, protection against, 349:35
outer membrane of, as target of C-terminally anchored proteins, 349:611
oxidative stress effect on, in human cells, 348:425
phospholipid hydroperoxide glutathione peroxidase in, cytochrome *c* release inhibited by, 351:183
precursor thymidine kinase 2 protein import into, 351:469
of skeletal muscle
efficiency of, AMP and, 351:307
proton conductance in, magnesium and nucleotide effects on, 348:209
thymidine kinase inhibition in, ribofuranosylnucleoside lead compounds in, 351:167
translational control and biogenesis of, 346:849, 352:109
Mitochondrial ATP synthase, biosynthesis of, 346:33
Mitochondrial carriers, calcium-binding, second member of, 345:725
Mitochondrial depolarisation, effect on inositol trisphosphate induction of Ca^{2+} release, 347:593
Mitochondrial diseases, tissue-specific oxidative phosphorylation control and, 347:45

© 2001 Biochemical Society

Mitochondrial presequences, rapid degradation of, 349:703
Mitochondrial respiratory chain, complex 1 of, metformin inhibition of, 348:607
Mitogen-activated protein kinase
bradykinin stimulation by, 347:441
in cell cycle transition, 349:869
inhibition by *Drosophila* dual-specific phosphatase, 349:821
integrin coupling to signalling by, phosphoinositide 3-kinase and Cbl adaptor protein in, 345:385
interferon activation of, ethanol and, 349:427
in lysophosphatidic acid prevention of fibroblast apoptosis, 352:135
m3 muscarinic acetylcholine receptor coupling to, protein kinase C and EGF receptor kinase in, 348:381
peptide YY Y1 receptor activation of, 350:655
phosphospecific cell-based ELISA for, 350:717
prostaglandin endoperoxide synthase 2 induction by, 352:419
in regulation of GLUT5, GLUT2, and intestinal brush-border fructose absorption, 350:163
rolipram effects on, 347:571
serotonin$_{1A}$ receptor/$G_i\beta\gamma$ stimulation of, 347:61
Mitogen-activated protein kinase kinase
activation of SAPK-c/JNK by, 352:145
susceptibility to anthrax lethal factor, 352:739
Mitogen-activated protein kinase phosphatase, ERK and JNK regulation by, in differentiating P19 cells, 352:701
Mitogen-activated protein kinase phosphatase-1, catalytic activation of, 352:155
Mitogen-activated protein kinase/extracellular signal-regulated protein kinase (MEK), in Ras/Raf/MEK/ERK pathway, protein interactions and, 351:289
Mitogen-activated protein kinase-related kinase, from *Plasmodium falciparum*, 347:255
Mitosis, cell cycle control in, in yeast, 349:1
mm23 proteins, protein kinase activity of, 346:623
MNF-β: see Myocyte nuclear factor β.
Monocarboxylate transporter MCT4, adaptation to lactate export, in glycolytic cells, 350:219
Monocyte chemoattractant protein 1, homocysteine stimulation of, in vascular smooth muscle cells, 352:817
Monocytes, 5-lipoxygenase activity in, glutathione peroxidase-1 in, 349:455
Monolysocardiolipin acyltransferase, thyroxine regulation of, in heart, 346:403
Monoterpene ketone mono-oxygenase, monocytic, from *Rhodococcus erythorpolis*, 347:693
Morphine dehydrogenase, catalytic properties of, 345:687
Mosquitoes, insecticide-resistant, quantification of *Culex* esterases in, 346:17
Mouse disabled 2 protein, p67 isoform of, as transcriptional activator, 352:645
Mucins
sialylation of, during intestinal parasite infection, 350:805
from *Xenopus laevis* egg jelly, 352:449
MUC2 core peptide threonine residue, *N*-acetylgalactosamine incorporation into, in colon carcinoma cells, 347:537
MUC4 promoter, sialomucin complex with, cloning and characterisation of, 349:635
MUC5AC, physical characterisation of, 347:37
MUC5B
in colon cancer cells, 348:675
insoluble, in saliva, 351:421
MUC7 salivary mucin, recombinant N-terminal region of, bacterial binding domains in, 345:557
Multidrug resistance gene, in hepatocytes, oxygen tensions and, 350:443
Multidrug resistance protein
biogenesis of, 348:597
electron microscopic localisation of, 348:183
lipid asymmetry regulation by, in erythrocytes, 350:531
in protection against 4-hydroxynonenal, 350:555
Munc13-like proteins, 349:247
munc18c domain, syntaxin 4 interaction with, 350:741
Muscarinic acetylcholine receptor, m3, MAP kinase coupling to, protein kinase C and EGF receptor kinase in, 348:381
Muscle cells, phosphatidylinositol 3-kinase, p70 S6 kinase, and glycogen synthase kinase-3 activity in, leucine availability and, 350:361
Muscle contraction, insulin receptor substrate-1/2-associated phosphoinositide 3-kinase inhibition by, 349:775
Muscle metabolism, plasma membrane transporters in, 349:667
MutS mismatch repair protein, conformational changes in, in *Thermus aquaticus*, 347:881
c-*myb*, anti-sense oligonucleotide to, inhibition of leukaemic cells growth by, 346:295
Myc-intron-binding polypeptides, induction of, during retinoic acid-mediated haemopoietic cell differentiation, 345:535
Mycobacteria, binding to, fibronectin domains for, 347:725
Mycobacterium leprae, penicillin-binding protein derivatives in, 350:75
Myelin basic protein, Yak1p protein kinase phosphorylation and, 348:263
Myeloperoxidase, hydroxyphenylacetaldehyde generated by, atherosclerosis and, 352:693
Myoblast, differentiating
calpain and calpastatin regulation in, 351:413
cytochrome *c* oxidase subunit VIa in, 351:133
Myocardium, diabetic, lipid alterations in, 352:79
Myocyte(s)
cardiac
angiotensin II-stimulated formation of cADP-ribose in, 352:197
malonyl-CoA metabolism in, 350:61
ureteric, in inositol trisphosphate-gated Ca^{2+} channels, 349:323
Myocyte nuclear factor β, mammalian Sin3B interaction with, 345:335
Myometrium, phospholipase D in, ADP-ribosylation factor 6-regulated, protein $G\beta\gamma$ and, 352:491
Myosin, phosphorylation and force development in, in arterial smooth muscle, protein kinase C and, 352:573
Myosin light chain phosphatase
in cGMP-dependent mesangial cell relaxation, 346:217
of smooth muscle, inhibition by Ruthenium Red, 349:797
Myotoxin inhibitors, from phospholipase A_2, in Godman's viper venom, 346:631
Myristoylated alanine-rich C kinase substrate, translocation of, during embryonic myoblast myogenesis, 347:139
N-Myristoyltransferase, from *Plasmodium falciparum*, 348:459
Myxoma virus, serpin SERP-1 sialylation by, 347:375

Na^+ channel, epithelial, Nedd4 interaction with, 345:503
Na^+ exchange
amiloride-sensitive, in plant and yeast cells, 351:241
amino acid transporter ASCT2 and, 346:705
NAD, binding to deoxyhypusine synthase, 352:851
Na^+/dicarboxylate co-transporter, cationic amino acids in, 350:677
$NADP^+$- and NAD^+-dependent reactions, catalysed by betaine aldehyde dehydrogenase from *Pseudomonas aeruginosa*, 352:675
$NADP^+$-dependent aldehyde dehydrogenase, crystal structure of, 349:853
NADPH binding site, of flavodoxin oxidoreductase, 352:257
NADPH oxidase
activation of, $p40^{phox}$ in, 349:113
in neutrophils, actin-depolymerising agent deactivation of, 349:369
protein kinase C-β regulation of, in neutrophils, 347:285
β-Naphthoflavone-binding protein, in liver, 347:787
Nardilysin, in cytoplasm and cell surface, 349:587
N-arginine dibasic convertase (nardilysin) isoforms, in cytoplasm and cell surface, 349:587
Nasturtium fruit, sugar nucleotide-binding and autoglycosylating polypeptides from, 347:857
NAT1 and NAT1 arylamine acetyltransferases, amino acids imparting acceptor substrate selectivity to, 348:159
Nedd4
binding partners for, 351:557
interaction with epithelial Na^+ channel, 345:503
Nek2: see NIMA-related kinase 2.
Nematodes, small heat shock proteins in, association with reproductive tissues, 351:13
Neprilysin family, new testis-soluble zinc metallopeptidase of, 347:419
Nerve growth factor
anti-apoptotic signalling pathways used by, 352:175
calcitonin gene-related peptide activation by, 345:233
translation factor regulation by, 347:399
NEU3, in plasma membrane, identification and expression of, 349:343
Neu5Acα2–3Galβ1–3GalNAc α2,6-sialyltransferase, cloning, expression, and gene organisation of, 352:37
Neurabin II, *in vivo* dynamics of, 345:185
Neuronal binding, by tetanus toxin fragment C, 347:199
Neuronal cells, dynamin I gene promoter in, 351:661
Neuronal tau, effect on glyceraldehyde-3-phosphate dehydrogenase denaturation and reactivation, 351:233
Neurons
acylation of SNARE proteins in, 345:145
nitric oxide synthase in, nitric oxide-induced autoinhibition of, in presence of 5-methyltetrahydrobiopterin, 347:475
Neuroserpin, in pituitary and adrenal glands, 345:595
Neutral- and basic-amino-acid transport (NBAT) glycoprotein, effect on system $b^{0,+}$ type amino acid transporter, 351:677

© 2001 Biochemical Society

Neutrophil(s)
NADPH oxidase in, actin-depolymerising agent deactivation of, 349:369
NADPH oxidase regulation by protein kinase C-β in, 347:285
NF-κB: see Nuclear factor-κB.
NF-Y, regulation of ERK-regulated protein kinase 2 gene promoter by, 347:155
NG108–15 neuronal cells, bidirectional Ca^{2+} signalling by cADP-ribose in, 345:207
NGF: see Nerve growth factor.
Nicotinic acid-adenine dinucleotide phosphate receptors, binding sites for, 352:725
NIMA-related kinase 2, in complex with protein phosphatase 1, 349:509
Nitrate reductase, periplasmic, thiocyanate binding to, 352:859
Nitric oxide
cell injury by, protective effect of thioredoxin against, 346:759
copper/zinc superoxide dismutase regulation by, keratinocyte proliferation and, 346:719
high concentrations of, effect on cell respiration, 346:407
inhibition of isoproterenol-stimulated lipolysis by, 351:485
in keratinocyte-derived RANTES, during wound repair, 347:265
production of in coronary endothelial cells, tetrahydrobiopterin deficiency in, 349:353
synthesis by activated macrophages, oxygen tension and, 350:709
Nitric oxide synthase
cyclolinteinone inhibition of, 346:793
neuronal, nitric oxide-induced autoinhibition of, in presence of 5-methyltetrahydrobiopterin, 347:475
N^5-substituted tetrahydrobiopterin effects on, 348:579
tetrahydrobiopterin regulation of, 346:759
S-Nitrosoglutathione-Sepharose, protein binding to, 349:567
Nitrosourea, fibroblast sensitivity to, spermine synthase deficiency and, 351:439
Nitrotyrosine, GC/MS analysis of, in plasma, 345:453
Nod factor, new proteins relating to, 345:255
Norfloxacin, diffusion through F porin channel, 348:223
NRAMP, from *Arabidopsis thaliana*, in iron transport, 347:749
NRAMP1 stability, regulation by protein kinase C and oxidants, 351:687
NRAMP2 iron transporter, isoforms of, 349:289
Nuclear export recognition signals, in *Saccharomyces cerevisiae*, 347:115
Nuclear factor I/CCAAT transcription factor, oxidative stress in repression of, 348:235
Nuclear factor-κB
activation of
cyclolinteinone inhibition of, 346:793
by oxidised LDL, 350:829
homocysteine stimulation of, in vascular smooth muscle cells, 352:817
poly(ADP-ribose) polymerase regulation of, 346:641
in RANTES activation by TNF-α and IFN-γ, 350:131
TGF-β-mediated transcription repressed by, 348:591
Nuclear factor-κB-inducing kinase, in IgE isotype switching in response to CD40, 350:735
Nuclear inhibitor of protein phosphatase-1, protein phosphatase-1 interaction with, 352:651
Nuclear localisation
glucokinase and glucokinase regulatory protein in, 348:215
of phosphatidylinositol 5-phosphate 4-kinase by α-helix, 346:587
Nuclear protein, retinoblastoma protein-associated, characterisation and genetic structure of, 345:749
Nuclear receptor(s)
cytochrome P450 gene regulation by, 347:321
in Sp1 and GC-rich DNA interaction, 352:763
Nuclear receptor accessory proteins, complex formation of, quantitative assessment of, 345:627
Nuclease, cloning and characterisation of, from shrimp, 346:799
Nucleocapsid protein NCp15, from T-lymphotrophic virus type I, structure and stability of, 352:293
Nucleophile, catalytic, in β-mannosidase 2A, 351:833
Nucleoporin p62 *O*-linked *N*-acetylglucosamine, glucose regulation of, 350:109
Nucleoside transporters, equilibrative, inhibitor-sensitive and inhibitor-resistant, molecular cloning and characterisation of, 352:363
Nucleoside triphosphatase and diphosphatase activities, of acylphosphatase, 349:43
Nucleoside triphosphate diphosphohydrolase 6, characterisation of, 351:639
Nucleoside/nucleobase transporter, from *Plasmodium falciparum*, 349:67
Nucleotide(s), effect on proton conductance of skeletal muscle mitochondria, 348:209
Nucleotide binding site, of 5-lipoxygenase, 351:697
Nucleotide pyrophosphatase/phosphodiesterase, hepatic, as adenylyl transferase, 346:25

Ochrobactrum anthropi, GST in, modulation of, stress and, 346:553
Oct-2 DNA binding, phosphorylation-induced down-regulation of, 347:29
Octanoate, esterification in adipocytes, 349:463
Octanoic acid radical, formation in mixture of linoleic acid hydroperoxide with ferrous ions, polyphenol inhibition of, 346:265
Oesophageal epithelium, *frizzled* gene in, 349:829
Oilseed rape plastids, glucose 6-phosphate transporter in, inhibition by acyl-CoA thioesters, 352:525
Oleate, esterification in adipocytes, 349:463
Oligonucleotide(s), anti-sense, to c-*myb*, inhibition of leukaemic cells growth by, 346:295
Oligosaccharide(s)
glucose persistence on, effect on autophagic sequestration of N-linked glycoproteins, 345:459
processing of, anion exchanger trafficking and, 349:51
Oligosaccharide processing
in endoplasmic reticulum, 348:1
glycosylation site interdependence in, 348:507
Omp50 porin, from *Campylobacter jejuni*, 352:629
Onchocerca volvulus, phosphocholine-containing zwitterionic glycosphingolipids of, 348:417
Oocytes, ribonucleoprotein particle formation in, small nucleolar RNA elements for, 348:517
μ-Opioid receptors, G protein coupling of, 348:531
Organic anion-transporting polypeptide-1, cloning of, 345:115
Ornithine decarboxylase
in amino acid-supplemented colon adenocarcinoma cells, 348:401
antizyme inhibitor and, in fibroblasts, 346:699
isoprenaline-induced cardiac increase of, antizyme overexpression and, 350:645
of *Plasmodium falciparum*, 352:287
Orthophosphate-deficient diet, liver glucose-6-phosphatase in, 345:767
Osteoblasts, glucocorticoid suppression of hyaluronan synthase in, 349:91
Ostertagia ostertagi, third stage larvae of, mRNAs from, 347:763
Ovalocytosis, band 3 mutations and, 350:41, 351:839
Oxalate oxidase, wheat surface structure and, 349:309
Oxalomalate, iron metabolism and, 348:315
Oxidants, Nramp1 stability regulation by, 351:687
Oxidation
of p53, pyrrolidine dithiocarbamate and, 351:87
reversible, of HIV-2 protease, 346:305
β-Oxidation pathway enzymes, respiratory chain and, specific functional assemblies between, 345:429
Oxidative phosphorylation
in cardiolipin-lacking yeast mitochondria, 347:687
control of, tissue variation in, 347:45
of liver mitochondria, chronic alcohol consumption and, 349:519
Oxidative phosphorylation genes, translational control of, 352:109
Oxidative stress
cytoprotection against, haem oxygenase-1 expression and bilirubin production in, 348:615
effect on mitochondria and mitochondrial DNA, in human cells, 348:425
nuclear factor I/CCAAT transcription factor repression by, 348:235
resistance to, in spermine synthase-deficient skin fibroblasts, 352:381
3-Oxoacyl-(acyl carrier protein) synthase III, from *Cuphea wrightii* embryo, 345:153
Oxygen, in regulation of peroxisomal protein synthesis, 350:313
Oxygen radicals, effect on protein tyrosine phosphorylation and JNK-1 activation in lectin-stimulated thymocytes, 347:173
Oxygen tension
effect on hepatocyte multidrug resistance gene, 350:443
effect on nitric oxide synthesis by activated macrophages, 350:709
27-Oxygenation, of C_{27}-sterols, in kidney, 347:349

p21, effect on normal fibroblast apoptosis or senescence-like growth arrest, 347:543
p21-activated kinase, 12-hydroxyeicosatetraenoic acid activation of, 349:481
$p34^{cdc2}$ phosphorylation state, protein kinase C in activation of, Ca^{2+} transients in, 349:489
p38
in regulation of GLUT5, GLUT2, and intestinal brush-border fructose absorption, 350:163
rolipram effects on, 347:571

© 2001 Biochemical Society

p38 activation, in T cell apoptosis, 348:93
p38 mitogen-activated protein kinase
MAP kinase phosphatase-1 catalytic activation by, 352:155
phosphospecific cell-based ELISA for, 350:717
p40^{phox}, in NADPH oxidase activation, 349:113
p42/44 mitogen-activated protein kinase
activation of, formyl peptide receptor mutations and, 352:399
in adaptive cytoprotection in cardiomyocytes, 350:891
interferon activation of, ethanol and, 349:427
phosphospecific cell-based ELISA for, 350:717
p45, in proteasome-dependent degradation of Sp1, 348:281
p47^{phox}, protein kinase C interaction with, 345:767
p50/p65(Rel A), poly(ADP-ribose) polymerase regulation of: see Nuclear factor-κB.
p53
in cancer treatment, 352:1
effect on normal fibroblast apoptosis or senescence-like growth arrest, 347:543
oxidation of, pyrrolidine dithiocarbamate and, 351:87
p67 isoform, of mouse disabled 2 protein, functional analysis of, 352:645
p70 S6 kinase
in muscle cells, leucine availability and, 350:361
in 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase transcriptional activity, 349:59
p70^{S6k} translational effector, glucocorticoid inhibition of, 347:383
p120/p100 dephosphorylation, endothelial, VEGF and, 346:209
p130 protein, inhibition of Ca^{2+} signalling by, 349:357
Pancreas
bile salt-dependent lipase in, casein kinase II phosphorylation of, 345:121
eukaryotic initiation factor-2α kinase homologues in, mediation of endoplasmic reticulum stress response by, 346:281
exocrine, carboxyl ester lipase gene regulation in, 351:367
Pancreatic acinar cells, ryanodine receptor in, 351:264
Pancreatic bile salt, lipase secretion dependent on
casein kinase II phosphorylation of, 345:121
control by glucose-regulated protein, 352:865
Papain
aspartic acid 158 pK_a values in, 351:723
subsites of, interaction with cathepsins B and L, 347:123
Parathyroid cells, secretory response to extracellular cations in, cytoplasmic calcium and, 352:353
Parkinson's disease, mutant huntintin in, α-synuclein-promoted aggregation of, 346:577
PDGF: see Platelet-derived growth factor.
PDGF receptor: see Platelet-derived growth factor receptor.
Pea, fatty acid synthase type II of, inhibition of, 347:205
Pectin methylesterase, from *Aspergillus niger*, action mode of, 346:469
Penicillin-binding protein, derivatives of, in *Mycobacterium leprae*, 350:75
Penicillium amagasakiense glucose oxidase, active-site mutants of, 347:553
Pentyl radical, formation in mixture of linoleic acid hydroperoxide with ferrous ions, polyphenol inhibition of, 346:265
PEPCK: see Phosphoenolpyruvate carboxykinase.
Pepsin, flap of, glycine 76 role in, 349:169
Peptide YY Y1 receptor, MAP kinase activation by, 350:655
Peptidyl boronic acid inhibitors, proteasome inhibition by, 346:447
Peptidyl epoxide, cysteine protease inactivation by, 346:71
Peritoneal mast cells, latexin inhibition of carboxypeptidase A in, 346:817
Peroxiredoxin, of *Sedum lineare* plant, as homologue of *Escherichia coli* bacterioferritin co-migratory protein, 351:107
Peroxisomal import, of alanine:glyoxylate aminotransferase, Pex5p and, 352:409
Peroxisomal proteins, synthesis of, oxygen and haem regulation of, 350:313
Peroxisome proliferator-activated receptor a, cholesterol 7α-hydroxylase gene activity and, 351:747
Peroxisome proliferator-activated receptor δ, in mediation of fatty acid effects on adipose cell proliferation, 350:93
Peroxyl radicals, U937 cells exposed to, peroxidation of proteins before lipids in, 350:215
Peroxynitrite
activation of phosphoinositide 3-kinase/Akt pathway by, in skin fibroblasts, 352:219
ubiquinol oxidation by, 349:35
Peutz-Jeghers syndrome, LKB1 cDNA in, protein kinase A phosphorylation of, 345:673
Pex1p, synthesis of, oxygen and haem and, 350:313
Pex5p, and peroxisomal import of alanine: glyoxylate aminotransferase, 352:409
PfPK6, from *Plasmodium falciparum*, 347:255
pH
dependence of glucoamylase G1 catalysis of maltose hydrolysis on, 349:623
effect on hepatic 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, 347:459
in iron release from transferrin, 350:909
regulation of, in *Trypanosoma brucei*, 346:53, 347:887
Phanerochaetes chrysosporium, redox equilibria in, manganese peroxidase and, 349:85
Phenylalanine hydroxylase, N^5-substituted tetrahydrobiopterin effects on, 348:579
Phophoinositide 4-kinase, transmembrane 4 superfamily interaction with, 351:629
Phorbol myristate acetate, stimulation of fructose transport across brush-border membrane by, GLUT2 in, 350:149
Phosphatase and tensin homologue deleted on chromosome 10 (PTEN), liquid phosphatase activity of, 346:827
Phosphate, dietary deficiency of, effect on gluconeogenesis and glucose production, 352:227
Phosphatidylcholine(s)
in fatty acid exchange and desaturation, in leaves, 349:127
in mapping catalytic pocket of phospholipases A_2 and C, 346:679
preference of human group V of phospholipase A_2 by, 348:643
Phosphatidylcholine-specific phospholipase C, in TNF-α-treated leukaemia cells, 351:459
Phosphatidylinositide 3-kinase, ADP-ribosylation factor 6 downstream of, 345:719
Phosphatidylinositol, *Trypanosoma cruzi* phospholipases active on, 345:77
Phosphatidylinositol 3-kinase
in muscle cells, leucine availability and, 350:361
in regulation of GLUT5, GLUT2, and intestinal brush-border fructose absorption, 350:163
in thyrocyte proliferation, 348:351
in transcriptional activity of F-type 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, 349:59
Phosphatidylinositol 4,5-bisphosphate synthesis, in exocytosis restoration in mast cells, 346:63
Phosphatidylinositol 5-phosphate 4-kinase, nuclear targeting of, by α-helix, 346:587
Phosphatidylinositol transfer proteins
in *Dictyostelium discoideum*, 347:837
lipid-mediated effects of ethanol on, 348:667
sphingomyelin resynthesis and, 346:537
Phosphodiesterase 4, rolipram effects on, 347:571
Phosphodiesterase 3B, in adipocytes, TNF-α and cAMP down-regulation of, 346:337
Phosphoenolpyruvate carboxykinase
genetic promoter of, glucagon (cAMP) and insulin regulation of, in hepatocytes and hepatoblastoma cells, 352:211
genetic transcription by E1a and cAMP, CREB and C/EBPα in, 352:335
6-Phosphofructo-1-kinase, liver subunit of, overexpression of, 352:921
6-Phosphofructo-2-kinase, cardiac, wortmannin-sensitive/insulin-stimulated protein kinase activation of, 347:305
6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase
hepatic, pH and phosphorylation effects on, 347:459
transcriptional activity of, phosphatidylinositol 3-kinase in, 349:59
Phosphoinositide
binding of, by proteins containing pleckstrin homology domain, 351:19
study of, pleckstrin homology domain in, 350:1
Phosphoinositide 3-kinase(s)
Cbl and, in integrin $\alpha_{IIb}\beta_3$-mediated platelet activation, 351:669
in integrin coupling to MAP kinase signalling, 345:385
and negative signalling in platelets, 350:469
protein kinase B activating signals generated by, 346:561
p110α and p110β subunits of, kinetic properties and protein kinase activities of, 350:353
subunits of, tubulin interaction with, 346:483
tauroursodesoxycholate activation of Ras dependent on, in liver, 350:207
Phosphoinositide 3-kinase/Akt pathway, in skin fibroblasts, peroxynitrite activation of, 352:219
3-Phosphoinositides, adaptor for, tyrosine phosphorylation of, 349:605
Phospholamban, in regulation of Ca^{2+}- and Mg^{2+}-dependent ATPase function, 351:197
Phospholipase(s)
cryptococcal, purification and characterisation of, 347:431
from *Trypanosoma cruzi*, activity of on phosphatidylinositol and inositolphosphoceramide, 345:77
Phospholipase A_2

© 2001 Biochemical Society

allergic mediators and, 352:311
catalytic pocket of, 346:679
human group V of, phosphatidylcholine preference of, 348:643
melatonin regulation of, in pineal gland, 351:709
myotoxin inhibitors from, in Godman's viper venom, 346:631
in Rac-induced generation of reactive oxygen species, 348:525
Phospholipase A_2 inhibitors, from Australian elapid sera, 346:139
Phospholipase A_2 isoenzymes, *Trimeresurus flavoviridis* snake venom, regional evolution of, in Japan, 347:491
Phospholipase C
catalytic pocket of, 346:679
phosphatidylcholine-specific, in TNF-α-treated leukaemia cells, 351:459
in sperm and eggs, 346:743
Phospholipase D
ADP-ribosylation factor 1-regulated, in restoration of exocytosis in mast cells, 346:63
insulin-induced activation of, in kidney cells, 351:613
molecular and cell biology of, 345:401
myometrial, ADP-ribosylation factor 6-regulated, protein Gβγ and, 352:491
Phospholipid(s), scrambling of, FM1–43 and, 349:255
Phospholipid hydroperoxide glutathione peroxidase, mitochondrial, cytochrome *c* release inhibited by, 351:183
Phospholipid membranes, cytolytic peptide action on, reduced amide bond in, 352:659
Phosphoproteins, stanniocalcin 1 and 2 secretion as, from fibrosarcoma cells, 350:453
3-Phosphorylated inositol lipids, Tiam1 regulation by, 351:173
Phosphorylated protein, from skeletal muscle junctional-face membrane, 351:537
Phosphorylation
of Cdc28, *Saccharomyces cerevisiae* protein kinase CKII in, 351:143
of dentatorubral-pallidoluysian atrophy protein complex, in brain tissue, 351:587
effect on hepatic 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, 347:459
of protein kinase C, control by integrin β1 and *PTEN* gene, 352:425
of protein kinase C-ε, perinuclear localisation and, 352:19
in Raf-1 kinase domain regulation, 351:151
Phosphotyrosine, adaptor for, tyrosine phosphorylation of, 349:605
Phosphotyrosine phosphatase SHP2, ACTH-stimulated, protein kinase A and, 352:483
Photoreaction centre, bacterial, electron transfer in, structural changes and, 351:567
Photosensitisation, of epidermal carcinoma cells, apoptosis of, 351:221
Phytic acid, hydrolysis of, by *Bacillus* phytase, 352:623
Pineal gland, melatonin regulation of phospholipase A_2 in, 351:709
L-Pipecolic acid oxidase, similarity to monomeric sarcosine oxidases, 345:487
Pituitary adenylate cyclase-activating peptide: see also Vasoactive intestinal peptide/pituitary adenylate cyclase-activating peptide receptor 1 promoter.
Pituitary gland, neuroserpin expression in, 345:595
Placenta, labyrinthine layer of, cathepsin in, 349:689
Placental protein 14, α_2-macroglobulin binding to, 351:503
Plasma
nitrotyrosine n, GC/MS analysis of, 345:453
unsaturated lysophosphatidylcholines in, 345:61
Plasma membrane sialidase, NEU3 as, 349:343
Plasma membrane transporters, in muscle metabolism, 349:667
Plasmalemmal caveolae, JAK/STAT activation by bradykinin in, 351:257
Plasminogen activator inhibitor type 1, angiotensin II-induced, Sp1 and, in mesangial cells, 349:435
Plasmodium falciparum: see also Malaria.
acidocalcisomes and vacuolar H^+-pyrophosphatase in, 347:243
class II apurinic/apyrimidinic endonucleases in, 345:85
erythrocytes infected with, glutathione synthesis in, 346:545
N-myristoyltransferase from, 348:459
nucleoside/nucleobase transporter from, 349:67
ornithine decarboxylase domain of, 352:287
PfPK6 from, 347:255
spingomyelinase activity in, 346:671
Plastids, fatty acyl-CoA inhibition of glucose 6-phosphate metabolism in, 348:145, 349:895
Platelet(s)
activation of, proline-rich tyrosine kinase 2 in, 347:561
Ca^{2+} entry into
farnesylcysteine analogue inhibition of, 347:183
tyrosine kinase activation of, 351:429
integrin $\alpha_{IIb}\beta_3$-mediated activation of, Cbl involvement in, phosphoinositide 3-kinase and Syk and, 351:669
LDL-activated Rap1 and Ral in, 349:231
MAX.3/CD84 antigen expression on, 346:729
transient receptor potential channel 1 coupling to inositol trisphosphate receptor in, 350:631
Platelet aggregation, geldanamycin and, 345:307
Platelet-derived growth factor
negative signalling by, phosphoinositide 3-kinase and, 350:469
protein kinase B activation by, actin cytoskeleton in, 352:617
STAT5 activation by, 345:759
Platelet-derived growth factor receptor
in modulation of mannose 6-phosphate/IGF-II receptor expression, in hepatic stellate cells, 345:225
in prostaglandin G/H synthase induction by lysophosphatidic acid in mesangial cells, 345:217
Platypus venom, defensin-like peptide-2 from, 348:649
Pleckstrin homology domain
of $GAP1^{IP4BP}$, inositol tetrakisphosphate binding to, 349:333
proteins containing, phosphoinositide-binding specificities of, 351:19
of p130, in inhibition of Ca^{2+} signalling, 349:357
signal-dependent membrane targeting by, 350:1
Poly(A) binding proteins, conferring selectivity to, 346:33
Poly(A) tail length, of casein mRNA, in lactating mammary gland, 347:579
Poly-3-hydroxyalkanoate polymerase, recovery from inactive inclusion bodies, 349:599
Polyamine
cytochrome *c* release from heart mitochondria induced by, 347:875
mRNAs responsive to, 346:185
Polyamine transporter, antizyme regulation of, 347:297
Polydom, as new secreted protein, EGF and von Willebrand factor A domains in, 352:49
Polyhistidine, thrombospondin-1 binding to, 347:469
Polymerase I and transcript-release factor (PTRF), interaction with BFCOL1, in collagen gene promoter binding, 347:55
Polyphenol(s), inhibition of pentyl and octanoic acid radical formation in linoleic acid hydroperoxide reaction mixture with ferrous ions, 346:265
Poly(ADP-ribose) polymerase, NF-κB regulation by, 346:641
Porcine pancreatic elastase, γ-lactam complexes with, pH-jump crystallographic analysis of, 351:335
Porin Omp50, from *Campylobacter jejuni*, 352:629
Porphyromonas gingivalis, cambialistic superoxide dismutase from, metal-specific activity of, 345:345
PPAR: see Peroxisome proliferator-activated receptor *entries.*
Pregnancy-specific glycoproteins, regulation of expression of genes for, 350:511
Prion protein
as protein kinase CK2 modulator, 352:191
superoxide dismutase activity similarity to, 345:767
Prion protein peptide
in Gerstmann-Sträussler-Scheinker syndrome, 346:785
PrP^{Sc}-like, cellular prion protein function and, 352:511
Progelatinase A, activation of, TIMP-2 and, 345:511
Prohormone convertase 2, sorting into secretory pathway, lipid bilayer in, 349:843
Prolactin, c-SRC stimulation by, Jak2 in, 345:17
Prolegumain, activation of, by asparagine, 352:327
Proline-rich protein-1, peptide substrates for, Golgi apparatus casein kinase sequence revealed by, 351:765
Proline-rich tyrosine kinase 2, in platelet activation, 347:561
Prolyl 4-hydroxylase, co-transfection with recombinant type X collagen, 352:907
Properdin, $C3b_2$-IgG complex interaction with, 349:217
Proprotein convertase 5A, integrin a subunit processing by, 346:133
Prosaposin, promoter analysis of, 352:549
Prostaglandin endoperoxide synthase 2, induction by MAP kinase cascade, 352:419
Prostaglandin E_2 receptor, *N*-glycosylation of, for sorting to plasma membrane, 350:839
Prostaglandin G/H synthase, lysophosphatidic acid induction of, PDGF receptor in, in mesangial cells, 345:217
Prostate cells, transcriptional regulation of *N*-arginine dibasic convertase in, 351:755
Proteasome(s)
peptidyl boronic acid inhibitors and, 346:447
Sp1 degradation by, Sug1/p45 in, 348:281
Proteasome activator, antigen presentation and, 345:1

© 2001 Biochemical Society

Proteasome complexes, localisation of, in mammalian cells, 346:156
Protein(s)
aging of, collagen racemisation and isomerisation and, 345:473, 345:481
iron regulatory, 352:241
localisation and stability of, reduced-folate carrier allele mutations and, 346:509
peroxidation of, lipid peroxidation after, 350:2157
specific functional assemblies of, 345:429
thermal stability of, 345:711
translocation across membranes, lipids in, 347:601
type I repeat fusion, from thrombospondin 1, 346:147
Protein C, activated, protein S first epidermal growth factor-like module binding to, 349:757
Protein 14–3–3
effect on protein kinase C-ζ coupling to Raf-1, 345:297
interaction with IL-9 receptor α-chain, 345:741
Protein interactions, selection of, split-ubiquitin system for, 348:585
Protein kinase(s)
activity of, in mm23 proteins, 346:623
wortmannin-sensitive and insulin-stimulated, heart 6-phosphofructo-2-kinase activation by, 347:305
Protein kinase A
in ACTH-stimulated phosphotyrosine phosphatase SHP2, 352:483
Cβ2 subunit of, molecular characterisation and distribution of, 351:123
LKB1 cDNA phosphorylation by, 345:673
Protein kinase B
activation of, actin cytoskeleton in, 352:617
in 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase transcriptional activity, 349:59
phosphoinositide 3-kinase activation of, 346:561
phosphospecific cell-based ELISA for, 350:717
in thyrocyte proliferation, 348:351
Protein kinase B/Akt
activation and phosphorylation of, growth factor-induced, in breast cancer cells, 352:475
activation of, cannabinoid CB_1 receptor and, 347:369
Protein kinase B/cAkt
in hepatocytes, glucokinase gene induction and, 351:621
sterol regulatory element-binding protein 1 gene expression and, 349:13
Protein kinase C
in activation of $p34^{cdc2}$ phosphorylation state, Ca^{2+} transients in, 349:489
14–3–3 protein activation of, 347:781
isoforms of, alcohol-appended substrate library of, 349:709
in myosin phosphorylation and force development, in arterial smooth muscle, 352:573
in m3 muscarinic acetylcholine receptor coupling to MAP kinase, 348:381
Nramp1 stability regulation by, 351:687
phosphorylation of, control by integrin β1 and *PTEN* gene, 352:425
in proline-rich tyrosine kinase 2 activation of platelets, 347:561
$p47^{phox}$ interaction with, 345:767
regulator of G protein signalling 16 induced by, in leukaemia cells, TNF-α in, 352:747
Protein kinase C-β, NADPH oxidase regulation by, in neutrophils, 347:285
Protein kinase C-ϵ, phosphorylation of, perinuclear localisation and, 352:19
Protein kinase CKII
prion protein modulation of, 352:191
in *Saccharomyces cerevisiae*, in phosphorylation of Cdc28 and regulation of cell size, 351:143
Protein kinase C-ζ, Raf-1 coupling to, 14–3–3 isotypes in, 345:297
Protein kinase inhibitor *PKIB* and *PKIG* genes, cloning and mapping of, 349:403
Protein kinase inhibitors, specificity and action mechanism of, 351:95
Protein kinases, of alkyltransferase, in brain tumour cells, 351:393
Protein phosphatase(s), dual-specific, MAP kinase inhibition by, 349:821
Protein phosphatase 1
Nek2 in complex with, 349:509
nuclear inhibitor of protein phosphatase-1 interaction with, 352:651
tautomycin affinity to, 350:81
Protein phosphatase 1-targeting subunit, of skeletal muscle, RVXF motif mutations in, 346:77
Protein phosphatase 2A
tautomycin affinity to, 350:81
tubulin effects on, 346:433
Protein phosphatase 4, binding subunit of, at centrosomes, 347:845
Protein phosphorylation, diffusion control of, 350:901
Protein S, first epidermal growth factor-like module of, activated protein C binding to, 349:757
Protein shedding, calmodulin inhibitors and, 346:359
Protein tyrosine phosphorylation, oxygen radical effect on, in lectin-stimulated thymocytes, 347:173
Proteinaceous inhibitor of α-amylase, complex of, crystal structure of, 346:201
Proteinases, link peptide cartilage growth factor degradation by, 349:473
Proteins, C-terminally anchored, mitochondrial outer membrane as target of, 349:611
Protein-tyrosine phosphatase, EGF receptor transactivation mediated by, 347:441
Proteoglycan, cartilage, mannosamine breakdown of, 345:495
Proteolytic digestion, resistance to, after phosphorylation of methylated DNA-protein-cysteine *S*-methyltransferase, 352:801
Proteus mirabilis, conserved active-site residues in GST Beta class of, 351:341
Proton conductance, of skeletal muscle mitochondria, magnesium and nucleotide effects on, 348:209
Proton leak, mitochondrial, endurance training and, 351:805
Proton pyrophosphatase, vacuolar, in *Toxoplasma gondii*, as chemotherapeutic target, 349:737
Proton-translocating pyrophosphatase, vacuolar-type, from *Trypanosoma cruzi*, 351:281
Protoporphyrin glycoconjugates, from Harderian gland, 347:757
Pseudomonas aeruginosa, betaine aldehyde dehydrogenase from, $NADP^+$- and NAD^+-dependent reactions catalysed by, 352:675
Pseudorabies virus DNase, functional domain of, 346:441
Pseudouridine synthase 1, genetic structure and expression of, 352:465
PTEN (phosphatase and tensin homologue deleted on chromosome 10), liquid phosphatase activity of, 346:827
PTEN gene, protein kinase C phosphorylation control by, 352:425
PTRF: see Polymerase I and transcript-release factor.
Putative protein receptor, tetanus toxin fragment C interaction with, 347:199
Pyrophosphatase
in *Toxoplasma gondii*, as chemotherapeutic target, 349:737
vacuolar-type proton-translocating, from *Trypanosoma cruzi*, 351:281
Pyrrolidine dithiocarbamate, p53 oxidation and, 351:87
Pyruvate dehydrogenase kinase
from *Arabidopsis thaliana*, serine residue phosphorylation by, 349:195
isoforms of, cardiac expression of, 352:731
in skeletal muscle, starvation and refeeding effects on, 346:651
Pyruvate kinase, from banana fruit, 352:875
Pyruvate oxidase, conversion to α-ketobutyrate oxidase, 352:717
Pyruvate-proton symport, pH regulation by, in *Trypanosoma brucei*, 346:53, 347:887

Quinoprotein glucose dehydrogenase apoenzyme, activation of, in *Escherichia coli*, kinetics and thermodynamics of, 350:917
QUTR (*qutR*-encoded transcription-repressing protein), domains of, functioning of, 350:189

Rab5 GPTase, mechanism and function of, 346:501
Rab6, *N*-ethylmaleimide-sensitive fusion protein binding to, 352:165
Rabaptin5, as rab4a effector protein, 346:593
Rac, reactive oxygen species generation induced by, 348:525
Rac1-specific exchange factor Tiam1, regulation by 3-phosphorylated inositol lipids, 351:173
Raf-1, protein kinase C-ζ coupling to, 14–3–3 isotypes in, 345:297
RANTES (regulated upon activation, normal T-cell expressed and secreted)
activation by TNF-α and IFN-γ, 350:131
keratinocyte-derived, nitric oxide in, during wound repair, 347:265
Rap1 and Ral, LDL activation of, in platelets, 349:231
Ras, phosphoinositide 3-kinase-dependent tauroursodesoxycholate activation of, in liver, 350:207
Ras effector pathway, EGF activation of, exoenzyme S ADP-ribosylation and, 347:217
Ras family, regulation of G protein GTPase activity by, 350:19, 351:839
Ras/Raf/MEK/ERK pathway, protein interactions and, 351:289
Reactive chlorine species, LDL modification by, vitamin C and, 346:491
Reactive oxygen species
Rac-induced generation of, 348:525
serotonin$_{1A}$ receptor/G$_i\beta\gamma$ stimulation of, 347:61
Receptor activity-modifying protein 1, G protein-coupled receptor complex with, 351:347
Red blood cells: see Erythrocytes.
Redox equilibria, manganese peroxidase and, in *Phanerochaetes chrysosporium*, 349:85
Redox-sensitive cysteine residue, c-Rel protein phosphorylation and, 352:583
Reduced-folate carrier alleles, mutations in, effect on protein localisation and stability, 346:509

© 2001 Biochemical Society

Regulator of G protein signalling 16, protein kinase C induction of, in leukaemia cells, TNF-α in, 352:747
Rem2, characterisation as GTPase, 347:223
Renal tubular acidosis, band 3 mutations and, 350:41, 351:839
Reproductive tissues, small heat shock proteins associated with, 351:13
Respiration
  cellular, effect of high concentrations of nitric oxide on, 346:407
  of liver mitochondria, chronic alcohol consumption and, 349:519
  nervous control of, *ECEL1* gene encoding of zinc metallopeptidase in, 346:611
Respiratory burst, dehydroascorbic acid uptake and, in HL-60 cells, 345:195
Respiratory chain
  mitochondrial, complex 1 of, metformin inhibition of, 348:607
  β-oxidation pathway enzymes and, specific functional assemblies between, 345:429
Respiratory distress syndrome, surfactant protein C content and, 351:779
Restrictocin, cytotoxicity of, 345:247
Retinal cells, retinoid X receptor-γ gene promoter in, 347:485
Retinoblastoma protein-associated nuclear protein, characterisation and genetic structure of, 345:749
Retinoic acid
  growth arrest and recovery induced by, in gastric cancer cells, Bcl-2 effect on, 348:473
  haemopoietic cell differentiation mediated by, Myc-intron-binding polypeptide induction during, 345:535
Retinoic acid receptor, in activation of uncoupling protein-1 gene, 345:91
Retinoid X receptor, in activation of uncoupling protein-1 gene, 345:91
Retinoid X receptor-γ gene promoter, in retinal cells, 347:485
Retinoid-binding proteins, 348:481
RFX1 polypeptide, induction of, during retinoic acid-mediated haemopoietic cell differentiation, 345:535
RGS14, regulation of G protein GTPase activity by, 350:19, 351:839
Rho effector pathways, tight-function permeability regulation by, 346:617
Rho GTPases, effector proteins of, 348:241
Rho proteins, effect on tyrosine phosphorylation of VEGF receptor, 348:273
Rhodococcus erythropolis, monocytic monoterpene ketone mono-oxygenase from, 347:693
Rhodothermus marinus, thermostable xylanase in, carbohydrate-binding modules from, 345:53
Ribofuranosylnucleoside, lead compounds of, in mitochondrial thymidine kinase inhibition, 351:167
Ribonucleoprotein, heterogeneous nuclear, protein subset of, 350:495
Ribonucleoprotein D0, heterogeneous nuclear, as DNA-binding transactivator, 348:151
Ribonucleoprotein particle formation, in frog oocytes, small nucleolar RNA elements for, 348:517
Ribonucleotide reductase, in lymphoid leukaemic cells, 345:681
Ribosomal S6 kinases, in thyrocyte proliferation, 348:351
RNA polymerase core enzyme, σ^N interaction with, in *Escherichia coli*, 352:539
RNA polymerase domain, of turnip yellow mosaic virus, in baculovirus-insect cell system, 349:417
RNA-binding proteins, chicken Y box proteins as, 348:297
RNA-cleaving DNA enzymes, HIV-1 gene expression inhibited by, 352:667
Rolipram, effect on phosphodiesterase cAMP isoforms, CREB, and p38 MAP kinase, 347:571
RP43, characterisation of cDNA encoding, 350:421
Rubrivavax gelatinosus, carotenoid 3,4-desaturase from, in revealing reaction sequence to spheroidene and spirilloxanthin, 349:635
Ruthenium Red, smooth muscle myosin light chain phosphatase inhibition by, 349:797
Ryanodine, binding to skeletal muscle sarcoplasmic reticulum, Zn^{2+} effect on, 345:279
Ryanodine receptor
  calcineurin regulation of, in heart, 352:61
  in pancreatic acinar cells, 351:264
  in skeletal muscle, calcium regulation domain of, 351:57

σ^N, interaction with RNA polymerase core enzyme, in *Escherichia coli*, 352:539
S6 kinases, ribosomal, in thyrocyte proliferation, 348:351
Sac phosphatase domain proteins, 350:337
Saccharomyces cerevisiae
  amiloride-sensitive Na^+ exchange in, 351:241
  copper uptake by Fe(II) permease in, 351:477
  heat shock-induced cell death in, glutathione in, 352:71
  hypoxic ADP/ATP carrier (*AAC3* gene) in, transcriptional regulation of, 352:893
  nuclear export recognition signals in, 347:115
  protein kinase CKII in, in phosphorylation of Cdc28 and regulation of cell size, 351:143
  Yak1p protein kinase of, dual specificity of, 348:263
Saliva, insoluble MUC5B in, 351:421
Salivary lipocalin, structural characterisation and expression of, 350:369
Salivary mucin MUC7, recombinant N-terminal region of, bacterial binding domains in, 345:557
SAPK: see Stress-activated protein kinase.
Sarcoplasmic reticulum
  junctional-face membrane of, phosphorylated protein from, 351:537
  of skeletal muscle, ryanodine binding to, Zn^{2+} effect on, 345:279
Sarcosine oxidases, monomeric, L-pipecolic acid oxidase similarity to, 345:487
Scatter factor, laminin γ2-chain gene promoter activation by, 347:407
Scavenger receptor, in advanced glycation end products elimination by liver sinusoidal endothelial cells, 352:233
Schizosaccharomyces pombe aph1, disruption and overexpression of, effects on Ap_4A, ATP, and ADP concentrations, 350:663
SecA and precursor protein, interaction with *Bacillus subtilis* CsaA, 348:367
Secretory pathway, prohormone convertase 2 sorting into, lipid bilayer in, 349:843
Secretory protein charge, effect on Gram-positive bacterium protein secretion, 350:31, 351:839
Sedum lineare plant, peroxiredoxin of, as homologue of *Escherichia coli* bacterioferritin co-migratory protein, 351:107
Selenocysteine tRNA gene transcription-activating factor, structure and promoter analysis of, 346:45
Semicarbazide-sensitive amine oxidase, from lung microsomes, time-dependent activation of, 351:789
Senescence-like growth arrest, of normal fibroblasts, 347:543
Serine hydroxymethyltransferase, in liver, catalytic mechanism of, 350:849
Serine phosphorylation
  IL-6-induced, 347:89
  by pyruvate dehydrogenase kinase from *Arabidopsis thaliana*, 349:195
Serine protease inhibitors, effect on cytochrome *c*-mediated caspase-9 activation and apoptosis, during hypoxia-reoxygenation, 347:669
Serine/threonine kinase activity, in TGF-β signals, 350:395
Serotonin$_{1A}$ receptor/$G_i\beta\gamma$, MAP kinase and reactive oxygen species stimulated by, 347:61
Serpin SERP-1, viral sialylation of, 347:375
Serum response factor, effect on smooth muscle-specific promoter activity, 345:445
Sex hormones, 3α-hydroxysteroid dehydrogenase isoforms and, 351:67
ShBle, bleomycin resistance conferred by, in *Haloferax volcanii*, 346:251
Shc-like adaptor protein, vascular endothelial growth factor receptor binding of, 347:501
Shewanella frigidmarina, iron respiration in, cytochrome *c* and, 349:153
Shrimp, nuclease from, cloning and characterisation of, 346:799
Sialidase, in plasma membrane, NEU3 as, 349:343
Sialomucin complex/Muc4 promoter, cloning and characterisation of, 349:635
Sialoprotein-binding protein, bone, from *Staphylococcus aureus*, 345:611
Sialyltransferases
  cloning, expression, and gene organisation of, 352:37
  virally-encoded, SERP-1 modification by, 347:375
Signal transducer and activator transcription factor: see also Janus kinase-signal transducer and activator transcription factor.
  cytoplasmic, before activation, 345:417
  IL-6 activation of, IL-1β inhibition of, 352:913
Signal transducer and activator transcription factor-3, IL-6-induced transactivation of, 347:89
Signal transducer and activator transcription factor-5, PDGF activation of, 345:759
Signal transduction
  amino acid-dependent, 351:545
  by promiscuous inositol tetrakisphosphate 1-kinase/inositol trisphosphate 5/6-kinase, 351:551
Signal transduction pathways, diffusion control of protein phosphorylation in, 350:901
Silencer, of CD46 gene, regulation of, 351:353
Sin3B, mammalian, MNF-β interaction with, 345:335
Sj-FABPc fatty acid-binding protein, structure, function, and solvent exposure of, 349:377
Skeletal muscle
  contractions of, hormone-sensitive lipase stimulation by, 351:207
  cytosolic creatine kinase in, β-enolase interaction with, 346:127

© 2001 Biochemical Society

junctional-face membrane of, phosphorylated protein from, 351:537
mitochondria of
effects of endurance training and creatine depletion on, 350:547
proton conductance in, magnesium and nucleotide effects on, 348:209
mitochondrial efficiency of, AMP and, 351:307
mitochondrial proton leak in, endurance training and, 351:805
protein phosphatase-1-targeting subunit of, RVXF motif mutations in, 346:77
pyruvate dehydrogenase kinase, starvation and refeeding effects on, 346:651
ryanodine receptor in, calcium regulation domain of, 351:57
sarcoplasmic reticulum of, ryanodine binding to, Zn^{2+} effect on, 345:279
Skin, fibroblasts of
activation of phosphoinositide 3-kinase/Akt pathway by peroxynitrite in, 352:219
spermine synthase-deficient, resistance to oxidative stress and UV irradiation in, 352:381
Smad2 and Smad3, differences in FAST-2-mediated transcription, 350:253
SMARE protein: see *N*-Ethylmaleimide-sensitive factor attachment protein receptor protein.
Smooth muscle
arterial, myosin phosphorylation and force development in, protein kinase C and, 352:573
myosin light chain phosphatase of, inhibition by Ruthenium Red, 349:797
Smooth muscle cells
TGF-β activation in, thrombospondin 1 and, 350:291
vascular: see Vascular smooth muscle cells.
Smooth muscle-specific promoter activity, serum response factor effect on, 345:445
Snake venom
phospholipase A_2 inhibitors from, 346:139
phospholipase A_2 isoenzymes in, regional evolution of, in Japan, 347:491
phospholipase A_2 myotoxin inhibitors from, 346:631
protein in, integrin $\alpha_{IIb}\beta_3$ recognition of, 345:701
SNAP: see Synaptosomal protein.
Sodium butyrate, erythroblastic differentiation induced by, G proteins in, 346:455
Sodium channel γ subunit promoter, amiloride-sensitive epithelial, 347:105
Sodium/dicarboxylate co-transporter, cationic amino acids in, 350:677
Soft tissue, collagen racemisation and isomerisation in, 345:481
Sp1
activating site for, in adenine nucleotide translocator-2 promoter, 352:519
adenine nucleotide translocase-2 stimulation by, 346:93
in angiotensin II-induced plasminogen activator inhibitor type 1, in mesangial cells, 349:435
cytosine methylation of, in lung epithelial gene *T1*α expression, 350:883
GC-rich DNA interaction with, nuclear receptors in, 352:763
proteasome-dependent degradation of, Sug1/p45 in, 348:281
Sp3, regulation of ERK-regulated protein kinase 2 gene promoter by, 347:155
Sperm, Ca^{2+} releasing ability and phospholipase C in, 346:743
Spermidine, binding to deoxyhypusine synthase, 352:851
Spermine
diffusion through F porin channel, 348:223
intestinal glycoprotein glycosylation induced by, 345:69
Spermine synthase deficiency
effect on fibroblast polyamine biosynthesis and content, 351:439
in skin fibroblasts, resistance to oxidative stress and UV irradiation in, 352:381
Spheroidene, reaction sequence to, 349:635
Sphingomyelin, resynthesis of, phosphatidylinositol transfer protein β and, 346:537
Sphingosine kinase, human, 350:425
Sphingosine 1-phosphate
in endothelial cell proliferation and migration, lipid receptors Edg-1 and Edg-3 in, 348:71
interaction with plasma lipoproteins, 352:809
signalling by, in mammalian cells, 349:385
Spirilloxanthin, reaction sequence to, 349:635
Spleen, bovine ecto-NAD^+ glycohydrolase cloning from, human CD38 identity to, 345:43
Split-ubiquitin system, for selection of protein interactions in mammalian cells, 348:585
Spodoptera littoralis, 3-dehydroechysone 3α-reductase from, molecular characterisation of, 349:239
Src tyrosine kinase, ADAM12 activation of, 352:883
SREBP-1c: see Sterol regulatory element-binding protein 1c.
Stanniocalcin 1 and 2, secretion as phosphoproteins from fibrosarcoma cells, 350:453
Staphylococcus aureus
α-toxin from, to test for channelling of glycolysis in hepatocytes, 352:899
bone sialoprotein-binding protein from, 345:611
Starch-binding domain, *Bacillus* α-amylase in, 350:477
Starvation and refeeding, effects on skeletal muscle pyruvate dehydrogenase kinase, 346:651
STAT: see Signal transducer and activator transcription factor.
Steroidogenic factor 1, cholesterol synthesis and, 350:785
Sterol regulatory element-binding protein 1 gene, protein kinase B/cAkt and insulin effect on, 349:13
Sterol regulatory element-binding protein 1c (SREBP-1c) transcriptional activity, insulin and, in hepatocytes, 350:389
Stichopus japonicus, arginine kinase of, gene structure and substrate recognition system for, 351:579
Stilbene synthase, cyclisation reactions in, important amino acids in, 350:229
Streptoalloteichus hindustanus, bleomycin resistance determinant ShBle from, in *Haloferax volcanii*, 346:251
Streptococci, group B, hyaluronan lyase from, specificity of, 348:465
Streptococci binding domain, in recombinant N-terminal region of salivary mucin MUC7, 345:557
Streptomyces chartreusis, α-L-arabinofuranosidases from, 346:9
Stress
and modulation of *Ochrobactrum anthropi* GST, 346:553
N-acylethanolamine generation induced by, in epidermal cells, 346:369
Stress-activated protein kinase, tau phosphorylation and, 345:263
Stress-activated protein kinase/c-Jun N-terminal kinase activation, by MAP kinase kinase, 352:145
Stress-inducible protein 1, heat shock cognate protein 70 chaperone binding site in, 345:645
Stromal cells, uterine, bis(monoacylglycerol) phosphate in, 351:795
Sug1, in proteasome-dependent degradation of Sp1, 348:281
Sugar nucleotide-binding polypeptides, from nasturtium fruit, 347:857
Sulphotransferase-like cDNAs, in brain, 346:857
Superoxide dismutase
activity of, prion protein activity similarity to, 345:767
cambialistic, from *Porphyromonas gingivalis*, metal-specific activity of, 345:345
Surfactant protein C, low content of, respiratory distress syndrome and, 351:779
Surfactant protein D, binding to influenza A virus, 351:449
Syk, Cbl and, in integrin $\alpha_{IIb}\beta_3$-mediated platelet activation, 351:669
Synaptojanin, *EEN* gene family interaction with, 348:447
Synaptosomal protein, palmitoylation of, syntaxin binding and, 345:145
Syncollin, targeting of, in exocrine and endocrine cells, 350:637
Syndecan, transmembrane and cytoplasmic domains of, endocytosis involving detergent-insoluble membrane rafts in, 351:607
Synovial fibroblasts, IL-1 induction of hypoxia-inducible factor 1 in, 350:307
Syntaxin 4, munc18c domain interaction with, 350:741
α-Synuclein, mutant huntintin aggregation and, 346:577
System $b^{0,+}$ type amino acid transporter, neutral- and basic-amino-acid transport (NBAT) glycoprotein effect on, 351:677

T1α gene expression, in lung epithelium, Sp1 cytosine methylation and, 350:883
T cell
apoptosis of, JNK and p38 activation in, 348:93
lectin-stimulated signalling by, oxygen radical effect on protein tyrosine phosphorylation and JNK-1 activation in, 347:173
TACE: see Tumour necrosis factor α convertase (TACE).
TATA-binding protein-associated factor 170 gene, structure, promoter, and chromosomal localisation of, 345:521
Tau, neuronal, effect on glyceraldehyde-3-phosphate dehydrogenase denaturation and reactivation, 351:233
Tau phosphorylation, stress-activated, 345:263
Tautomycin, affinity to protein phosphatases, 350:81
Tendon, catabolism of aggrecan, decorin, and biglycan in, 350:181
Tensin, molecular characterisation of, 351:403
Testis-soluble zinc metallopeptidase, new, in neprilysin family, 347:419
Tetanus toxin fragment C, neuronal binding and interaction with putative protein receptor by, 347:199
Tetrahydrobiopterin
biosynthesis, regeneration, and functions of, 347:1

© 2001 Biochemical Society

deficiency of in coronary endothelial cells, nitric oxide production and, 349:353
nitrix oxide synthase regulation by, 346:759
N^5-substituted, effects on phenylalanine hydroxylase, dihydropteridine reductase, and nitric oxide synthase, 348:579
Tetrahydrofolate, tetrahydromethanopterin vs, 350:609, 352:935
Tetrameric amyloidogenicity, designing transthyretin mutants with, 348:167
Tetranectin, heparin binding site in, 347:83
TGF-β: see Transforming growth factor-β.
Thapsigargin, in suppression of phorbol ester-dependent involucrin promoter activity, 350:791
Thermal stability
of *Caldibacillus cellulovorans* xylan binding domain, 346:583
of maltodextrin phosphorylase from *Escherichia coli*, 346:255
of proteins, 345:711
Thermodynamic mixing, EGF receptor ligand binding affinity and, 352:99
Thermogenesis, uncoupling protein homologues and, 345:161
Thermus aquaticus, MutS mismatch repair protein conformational changes in, 347:881
Thiocyanate, binding to periplasmic nitrate reductase, 352:859
Thiodeoxyuridines, anti-(herpes simplex virus) activity of, 351:319
Thioredoxin, protective effect of, against nitric oxide-mediated cell injury, 346:759
Thioredoxin reductase, 346:1
in kidney, 347:661
Thrombospondin 1
binding to polyhistidine, 347:469
TGF-β activation and, 350:291
type I repeat fusion proteins from, 346:147
Thymidine kinase 2, cloning and characterisation of, 351:459
Thyrocyte proliferation, phosphatidylinositol 3-kinase, protein kinase B, and ribosomal S6 kinases in, 348:351
Thyroid cells, store-operated entry and extrusion of calcium in, hydrogen peroxide and, 351:47
Thyroid hormone status, and cardiac pyruvate dehydrogenase kinase isoform expression, 352:731
Thyrotropin-releasing hormone receptor, trafficking of, kinetics of, 346:711
Tiam1, regulation by 3-phosphorylated inositol lipids, 351:173
Tibial growth plate cartilage, dyschondroplastic aggrecan from, 351:517
Tight-junction permeability, Rho effector pathways and, 346:617
TIMP-2: see Tissue inhibitor of metalloproteinases-2.
Tissue factor pathway inhibitor, anti-coagulant activity of, oxidised LDL and, 352:277
Tissue inhibitor of metalloproteinases-2, progelatinase A activation and, 345:511
T-lymphotrophic virus type I, nucleocapsid protein NCp15 from, structure and stability of, 352:293
TNF-α: see Tumour necrosis factor α.
Topoisomerase, inhibition by triterpenoids, 350:757
TRAIL: see Tumour necrosis factor α-related apoptosis-inducing ligand.
Transepithelial electrical resistance, RhoA activation and, 346:617
Transferrin, iron release from, chloride and pH in, 350:909
Transforming growth factor-α, as chimaera with EGF, epitope mapping by, 349:267
Transforming growth factor-β
activation of, thrombospondin 1 and, 350:291
signals of, Ser/Thr kinase activity in, 350:395
transcription mediated by, NF-κB repression of, 348:591
Transforming growth factor-β-binding protein, latent, 352:601
Transient receptor potential channel 1, coupling to inositol trisphosphate receptor, in platelets, 350:631
Transient receptor potential channel 2, splice variants of, heterologous expression of, 351:115
Transient receptor potential 4, cloning and expression of, 351:735
Translational regulation
by glucocorticoids, 347:383
by nutrients and growth factors, 347:399
Translocon subunits, sequence analysis of, 351:527
Transmembrane 4 superfamily proteins, phophoinositide 4-kinase interactions with, 351:629
Transthyretin mutants, designing of, to have tetrameric amyloidogenicity, 348:167
Trehalose 6-phosphate level, restoration of by *Escherichia coli otsA* expression in *Saccharomyces cerevisiae tps1* mutant, 350:261
Trichoderma reesei, cellobiosyl fluoride hydrolysis by cellobiohydrolase II in, 345:315
Trichosanthin, membrane insertion of, 349:835
Trifluoperazine, Ca^{2+}-bound calmodulin changes on binding of, 347:211
Trimeresurus flavoviridis snakes, venom gland phospholipase A_2 isoenzymes in, regional evolution of, in Japan, 347:491
Triterpenoids, DNA polymerase and DNA topoisomerase inhibition by, 350:757
tRNA, export and transport of, vigilin core complex and, 346:107
Trophoblast, labyrinthine, cathepsin in, 349:689
Trypanosoma brucei, pH regulation in, 346:53, 347:887
Trypanosoma carassii, mucin-like surface glycosylphosphatidylinositol-anchored glycoproteins from, 345:693
Trypanosoma cruzi
phospholipases from, activity of on phosphatidylinositol and inositolphosphoceramide, 345:77
vacuolar-type proton-translocating pyrophosphatase from, 351:281
Trypanosome enzyme, Glutathione-dependent peroxidase activity in, 352:755
Tryptophan, portal-proximal, of fatty acid-binding protein SjFABc, 349:377
Tryptophan mutants, of equinatoxin II, structure and function of, 346:223
Tubulin
effects on protein phosphatase 2A, 346:433
phosphoinositide 3-kinase subunit interaction with, 346:483
Tulip, lipoxygenase pathway in, ketol route in, 352:501
Tumour growth, antisense glutaminase and, 348:257
Tumour necrosis factor α
activation of RANTES promoter by, 350:131
adipocyte phosphodiesterase 3B down-regulation by, 346:337
leukaemia cells treated with, phosphatidylcholine-specific phospholipase C in, 351:459
in protein kinase C induction of regulator of G protein signalling 16, in leukaemia cells, 352:747
Tumour necrosis factor α convertase (TACE), maturation and localisation of, 347:131
Tumour necrosis factor α-related apoptosis-inducing ligand (TRAIL), functional analysis of, 350:505
Tumour necrosis factor receptor-associated factor 6, in IgE isotype switching in response to CD40, 350:735
Turnip yellow mosaic virus, RNA polymerase domain of, in baculovirus-insect cell system, 349:417
Ty1 reverse transcriptase, recombinant, in *Escherichia coli*, 348:337
Tyrosinase, from *Aspergillus oryzae*, copper ligands in, 350:537
Tyrosine, Yak1p protein kinase autophosphorylation on, 348:263
Tyrosine kinase(s), and Ca^{2+} entry in platelets, 351:429
Tyrosine kinase 2, proline-rich, in platelet activation, 347:561
Tyrosine phosphorylation
of dual adaptor of phosphotyrosine and 3-phosphoinositides, 349:605
in focal adhesion kinase neuronal forms, 348:119
of insulin receptor substrate proteins, semicarbazide-sensitive amine oxidase in, 350:171
of VEGF receptor-2, Rho proteins and, 348:273

Ubiquinol, peroxynitrite oxidation of, 349:35
Ubiquitination
of inositol trisphosphate receptor, 348:551
zinc-regulated, ZRT1 zinc transporter endocytosis and, 346:329
Ubiquitin-conjugating enzyme hUBC9, *FHIT* gene association with, 352:443
Ubiquitin-protein ligase Nedd4, binding partners for, 351:557
Ubiquitin-specific processing protease UBP109, tissue-specific expression of, 349:443
Ultraviolet damage, acidic nuclease/intracyclobutyl-pyrimidine-dimer-DNA phosphodiesterase and, 345:583
Ultraviolet irradiation, resistance to, in spermine synthase-deficient skin fibroblasts, 352:381
Uncoupling protein(s), homologues of, 345:161
Uncoupling protein-1 gene, activation of, retinoic acid and retinoid X receptor dependence of, 345:91
Ureteric myocytes, in inositol trisphosphate-gated Ca^{2+} channels, 349:323
Urokinase plasminogen activator gene transcription, regulation of by macrophage colony-stimulating factor-1, 347:313
Uterine stromal cells, bis(monoacylglycerol) phosphate in, 351:795

Vacuolar H^+-pyrophosphatase, in malaria parasites, 347:243
Vacuolar proton pyrophosphatase, in *Toxoplasma gondii*, as chemotherapeutic target, 349:737
Vacuolar-type proton-translocating pyrophosphatase, from *Trypanosoma cruzi*, 351:281
Valine, *Escherichia coli* acetohydroxyacid synthase II sensitivity to, 350:69

© 2001 Biochemical Society

VAMP (vesicle-associated membrane protein/synaptobrevin) gene, mitochondrial outer membrane as target of, 349:611
Vascular endothelial cells, cannabinoid receptors in, 346:835
Vascular endothelial growth factor, endothelial p120/p100 dephosphorylation and, 346:209
Vascular endothelial growth factor receptor
  Shc-like adaptor protein binding by, 347:501
  tyrosine phosphorylation of, Rho proteins and, 348:273
Vascular smooth muscle cells
  atrial natriuretic peptide C receptor in, adenylyl cyclase inhibition and, 346:313
  homocysteine stimulation of NF-κB and chemokine expression in, 352:817
Vasoactive intestinal peptide/pituitary adenylate cyclase-activating peptide receptor 1 promoter, in colon cancer, 347:623
VEGF: see Vascular endothelial growth factor.
Venom
  of platypus, defensin-like peptide-2 from, 348:649
  from snake: see Snake venom.
Very low density lipoprotein, binding to apolipoprotein E receptor 2, lipoprotein lipase in, 347:357
Vesicle-associated membrane protein/synaptobrevin (VAMP) gene, mitochondrial outer membrane as target of, 349:611
Vibrio porteolyticus, aminopeptidase from, propeptide of, in folding and inhibition, 350:671
Vigilin core complex, tRNA export and transport and, 346:107
Viscotoxin A3, structure of, 350:569
Visual signalling, farnesyl moiety in, 347:163
Vitamin C, effect on hypochlorous acid- and chloramine-dependent modifications of LDL, 346:491
Vitamin D response elements, DR3 type, functionality of, 352:301
Vitamin D_3, 25-hydroxylation of, in kidney, 347:349
VLDL: see Very low density lipoprotein.
Voltage-dependent chloride channel, putative, in tobacco, cell localisation of, 348:291
von Willebrand factor A domain, in polydom, 352:49

Wheat, oxalate oxidases and surface structure in, 349:309
Williams' syndrome, retinoblastoma protein-associated nuclear protein in, characterisation and genetic structure of, 345:749
Wilson disease protein, localisation in mammary gland, copper supplementation and, 352:565
Wortmannin, protein kinase sensitive to, heart 6-phosphofructo-2-kinase activation by, 347:305
Wound repair, nitric oxide in keratinocyte-derived RANTES during, 347:265

Xenopus laevis, egg jelly mucins of, 352:449
Xylan binding, lectin-like module with affinity for, 350:933
Xylan binding domain, of *Caldibacillus cellulovorans*, thermostabilisation and, 346:583
Xylanases
  active-site markers of, 347:865
  activity and dynamics of, 346:355
  thermostability and hydrolytic activity of, 349:651
  thermostable, carbohydrate-binding modules from, in *Rhodothermus marinus*, 345:53

Y box proteins, of chicken, single-stranded RNA interaction with, 348:297
Yak1p protein kinase, dual specificity of, 348:263
Yarrowia lipolytica Pex5p, domains and functions of, 346:177
Yeast
  copper uptake by Fe(II) permease in, 351:477
  glucose and ATP paradox in, 352:593
  glycolytic oscillations in, 345:321
  meiosis and mitosis in, cell cycle control in, 349:1
Yeast extract, joint-molecule formation in, 347:363

Zebrafish
  antizymes of, 345:99
  fit-f1 gene of, in digestive organs, 348:439
Zinc
  as cell cycle progression factor, 346:241
  effect on ryanodine binding to skeletal muscle sarcoplasmic reticulum, 345:279
Zinc metallopeptidase
  in nervous control of respiration, *ECEL1* gene encoding of, 346:611
  new testis-soluble, in neprilysin family, 347:419
Zinc transporter endocytosis, zinc-regulated ubiquitination and, 346:329
ZRT1 zinc transporter endocytosis, zinc-regulated ubiquitination and, 346:329
Zymogen-granule protein syncollin, targeting of, in exocrine and endocrine cells, 350:637

© 2001 Biochemical Society

Biochemical Society Symposia

Portland Press

Mitochondria and Cell Death

Edited by GC Brown, University of Cambridge, UK, D Nicholls, University of Dundee, UK, and C Cooper, University of Essex, UK

1 85578 125 5 Hardback October 1999 240 pages £65.00

This book reviews the involvement of mitochondria in cell death and disease. This is a rapidly expanding field of major importance to both basic biology and medical science. Clear and comprehensive chapters from some of the key researchers in the field cover most aspects of the subject from the molecular to the *in vivo* level. The role of mitochondria in neurodegenerative, inflammatory and ischaemic diseases, as well as necrosis, apoptosis and ageing is reviewed. Each chapter is by a different set of authors describing one aspect of the field. Researchers and postgraduates throughout biology and medical science will want to read this book.

Neuronal Signal Transduction and Alzheimer's Disease

Edited by C'O Neill, University College, Cork, Ireland and B Anderton, Institute of Psychiatry, London, UK

1 85578 133 6 Hardback February 2001 250 pages £65.00

The latest in the Biochemical Society Symposium series brings together key researchers from diverse biochemical areas to focus upon signal transduction dysfunction in Alzheimer's disease. Although specifically focused upon Alzheimer's this book has many parallels in other neurodegenerative disorders and will be of interest to those studying neuronal cell development and function in health and disease.

Cellular Responses to Stress

Edited by C P Downes, CR Wolf and D P Lane, University of Dundee, UK

1 85578 123 9 Hardback December 1998 184 pages £65.00

This book provides state-of the art information on the wide spectrum of mechanisms which cells, from simple prokaryotes to man, use to respond to different forms of stress induced by chemicals, oxidants and DNA damaging agents.

These mechanisms are fundamental to human health because they are crucial to the sensitivity of micro-organisms to chemotherapeutic agents, and they determine the sensitivity of normal and tumour cells to environmental agents and anti-cancer drugs. Research on these pathways is providing a wealth of new targets from which novel therapeutic agents are likely to emerge.

This book brings together some of the world's top scientists who work in different, but inter-related aspects of cellular responses. They bring together aspects of the subject which in the past have been regarded independently.

Cell Behaviour: Control and Mechanism of Motility

Edited by J M Lackie, Yamanouchi Research Institute, Oxford, UK, G A Dunn, and G E Jones, The Randall Institute, King's College, London, UK

1 85578 124 7 Hardback December 1998 360 pages £65.00

This book describes the latest molecular and genetic advances in the study of one of the most fundamental and yet least understood processes of life: the movement of cells.

The recent advances in identifying the molecular components of cell motility can be found in many publications but this text uniquely provides a synthesis of the molecular and phenomenological aspects that will be required for an understanding of the controlling processes that underlie cell behaviour.

"The organizers of the conference [and editors of the volume], Lackie, Graham Dunn and Gareth Jones, have deftly balanced multiple viewpoints ranging from single-molecule characterization to tissue-level phenomenology. ...uniformly high quality" ***Cell***

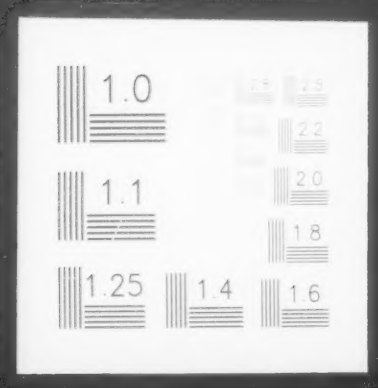
Orders:
Please quote reference ZPPA when ordering.

www.portlandpress.com/books/orderinfo.htm

***Portland Press, Commerce Way, Colchester, CO2 8HP**
t: 01206 796351
f: 01206 799331
e: sales@portlandpress.com

***Please add £2.50 per book to a maximum of £7.50**

Printed in Great Britain by the University Press, Cambridge


1.0
1.1
1.25
1.4
1.6
2.2
2.0
1.8